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Assessment of Training Noise Impacts on the Red-cockaded Woodpecker: 2000 Results

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Executive Summary

This report is submitted as partial fulfillment of the terms of the Strategic Environmental Research and Development Program (SERDP) funded project CS-1083. The purpose of this research is to assess the effects of military training noise on the endangered Red-cockaded Woodpecker (RCW) and to develop assessment methodology. The results of this research will provide a scientific basis for RCW management protocols, and will partially satisfy requirements of a 1996 U.S. Fish and Wildlife Service (USFWS) biological opinion that requires the Army to assess effects of implementing the 1996 "Management Guidelines for the RCW on Army Installations." These new guidelines will significantly reduce restrictions on training for Army installations on which RCWs are present. These Army installations include: Fort Stewart, GA; Fort Bragg, NC; Fort Benning, GA; Fort Polk, LA; Fort Gordon, GA; Fort Jackson, SC; Camp Mackell, NC; MOT (Military Ocean Terminal) Sunny Point, NC; and Peason Ridge, LA. This research is being conducted jointly by the U.S. Army Construction Engineering Research Laboratory (CERL), an element of the U.S. Army Engineer Research and Development Center (ERDC); Fort Stewart, and the U.S. Army Forces Command (FORSCOM). The project was developed by CERL in coordination with FORSCOM, the USFWS RCW Recovery Coordinator and Region 4 office, the Fort Stewart Directorate of Training, the Fort Stewart Directorate of Public Works (DPW) Fish and Wildlife Branch, and the Army Threatened and Endangered Species (TES) User Group.

During this third year of the study, we experimentally tested RCW response to controlled military training noise events under realistic conditions, namely .50-caliber blank fire and artillery simulators. We measured both proximate response behavior and nesting success, while continuing to measure baseline behavioral data from undisturbed RCW groups. Measured levels of experimental noise did not affect RCW nesting success or productivity. RCW flush response was shown to increase as stimulus distance decreased, regardless of stimulus type. Woodpeckers returned to their nests relatively quickly after being flushed, with return times being comparable to rates observed in 1999. Noise levels within RCW nest cavities were substantially louder than levels recorded at the base of the tree due to a possible Helmholtz resonating effect. It is important to note that the data analyzed to this point are insufficient to confirm statistical power to make strong conclusions or to establish reliable noise dose-response relationships or thresholds. The final report for this study, scheduled to be out by December 2001, will cover all three years of data and will provide definitive conclusions on military noise effects on RCWs. The data analyzed to this point are sufficient to confirm that the project technical approach was appropriate and that the research objectives will be achieved.

Foreword

This study was conducted for the Strategic Environmental Research and Development Program (SERDP) under an FY98 Conservation Project, No. CS-1083, "Assessment of Training Noise Impacts on the Red-cockaded Woodpecker." The technical monitor was Dr. Robert Holst.

The work was performed by the Ecological Processes Branch (CN-N) of the Installations Division (CN), Construction Engineering Research Laboratory (CERL) in cooperation with David Delaney at Jones Technologies, Inc. The CERL Principal Investigator was Dr. Larry L. Pater. The technical editor was Vicki A. Reinhart. Steve Hodapp is Chief, CEERD-CN-N, and Dr. John T. Bandy is Chief, CEERD-CN. The Acting Director of CERL is Dr. Alan W. Moore.

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1 Introduction

Background

The Endangered Species Act requires that all Federal agencies carry out programs to conserve threatened and endangered species (TES) and to evaluate the impacts of Federal activities on listed species (Scott et al. 1994). TES management on military installations, particularly that involving the Red-cockaded Woodpecker (RCW), has raised questions about the interaction between Army training and the conservation of Red-cockaded Woodpeckers on military lands. The goal of RCW management on Fort Stewart is to recover the population while eliminating conflicts with the training mission by eliminating the need for training restrictions (Fort Stewart Endangered Species Management Planning [ESMP] Team 1998). A brief summary of legal requirements is presented in Appendix A. Because noise management has traditionally focused on minimizing human annoyance, loud activities have often been relocated to sparsely populated areas where wildlife resides. This has led to increased interactions between military activity and wildlife (Holland 1991). Increasing importance has been placed on determining the extent of noise impacts on wildlife (Bowles 1995), especially threatened and endangered species (Delaney et al. 1999, 2000; Pater et al. 1999).

The Red-cockaded Woodpecker (*Picoides borealis*) is an endangered species that inhabits mature, open pine forests of the southeastern United States (Figure 1; Jackson 1994). Historically, RCW populations were distributed throughout the South from eastern Texas to the Atlantic coast, and north to New Jersey (Jackson 1987). The distribution has been reduced with the extirpation of RCWs from New Jersey (Lawrence 1867), Missouri (Cunningham 1946 as cited in Jackson 1987), and most recently Maryland (Devlin et al. 1980). The majority of RCWs are currently restricted to public lands, namely National Forests, military installations, and National Wildlife Refuges (Jackson 1978, Lennartz et al. 1983). Military installations, in particular, are gaining recognition as a valuable resource in the recovery of TES (Jordan et al. 1995). It has been estimated that nearly a quarter of the remaining RCWs are located on 16 military installations in the southeastern United States (Costa 1992; U.S. Fish and Wildlife Service 2000), which includes the Fort Stewart population. Such a close association has led to increased conflicts between TES conservation requirements and the mili-

tary's mission of maintaining a high degree of combat readiness (Jordan et al. 1995).

In 1984 the Army initially established a 200 ft (61 m) buffer zone around all RCW cavity trees to protect nesting habitat and identify RCW management units. In 1996, the Department of the Army (DA) issued revised guidelines for the management of RCWs on military lands, to reduce training restrictions, and increase adaptive management of the RCW and its habitat. Under the revised guidelines, certain transient military activities are permitted within 50 ft (15 m) of RCW cavity trees. These include: (1) military vehicle and personnel travel, including armor; (2) .50-caliber machine gun blank fire and 7.62-mm blank fire and below; (3) artillery/hand grenade simulators and Hoffman type devices; (4) hand digging of hasty individual fighting positions; (5) use of smoke grenades and star cluster/parachute flares; and (6) smoke and haze operation (see Hayden 1997 for a more detailed description of past and current Army guidelines for RCWs). A 1996 USFWS biological opinion requires the Army to assess effects due to implementing the 1996 guidelines (Jordan et al. 1997). The current noise project will provide an important aspect of this required assessment.

Figure 1. Adult Red-cockaded Woodpecker delivering prey to the nest.

The Fort Stewart Fish and Wildlife Branch prepared a draft Endangered Species Management Plan (Fort Stewart ESMP Team 1998) for the installation that detailed changes under these revised guidelines: (1) consideration will be given jointly to training mission requirements and RCW biological requirements when implementing ESMP; (2) reduction in off-limit area for thru-cluster maneuver traffic around cluster trees from 200 ft (61 m) to 50 ft (15 m); and (3) the types of

training activities allowed within RCW clusters will be expanded. Fort Stewart is scheduled to complete their ESMP by 2001.

Objectives

The primary research objective of this multiyear study is to determine the impact of certain types of training noise on the endangered Red-cockaded Woodpecker. This will require that we develop dose-response threshold relationships for quantifying RCW responses to noise levels and stimulus distances, and relate these to nesting success. A second objective is to develop and disseminate cost-effective techniques for documenting the effects of training noise on TES populations. These techniques include the capability to characterize noise stimuli, to document behavioral responses, and to determine resulting population effects due to military noise. Achieving these objectives will provide a means to manage impact on both military training capability and TES, and will provide a factual basis for mitigation and management protocols and guidelines. This research directly addresses the #1 Army Conservation Pillar User Requirement, which is concerned with impacts of military operations on threatened and endangered species. The results of this research will partially satisfy requirements of the 1996 USFWS biological opinion (Jordan et al. 1997) that requires the Army to assess effects due to implementing the 1996 "Management Guidelines for the RCW on Army Installations."

Approach

Chapter 3 presents details of the technical approach used in this research. The chapter includes discussions of the study area, RCW group selection, impact measures, response protocols, nesting success, video surveillance, sound instrumentation and recording, sound metrics, and statistical analysis.

Scope

All aspects of the research plan were reviewed and approved by the USFWS and Fort Stewart before monitoring activity began. Results from this research apply directly to Fort Stewart, but may be applicable to other installations in the southeastern United States where RCWs are exposed to similar noise. This study used population data collected at Fort Stewart under a Forces Command (FORSCOM) program. Specific evaluation of impact of maneuver training activities was conducted under a separate coordinated research effort. Training noise

sources examined during this study include artillery simulators, .50-caliber blank fire, large-caliber live fire, small-arms live fire, grenade simulators, and helicopters. RCW response to other military activity, such as vehicle noise associated with maneuver training, aircraft overflights, Multiple Launch Rocket System (MLRS) fire, and Stinger/Drone Missile fire, was documented opportunistically, but is not as high a priority in this study.

Mode of Technology Transfer

Products of this research will be provided directly to the Military Services for use during consultation with the USFWS and for development of management protocols. This aspect of the transition plan will directly help to alleviate impacts on military training capability and will provide information to the military that will guide effective management of impacts on endangered species populations. Other technology transfer methods will include technical papers and journal articles and TES and noise workshops. The information will also be disseminated through the Environmental Noise Program of the U.S. Army Center for Health Promotion and Preventive Medicine, the Army TES User Group, and the U.S. Air Force (USAF) International Bibliography on Noise (IBON). Other forums for dissemination include the U.S. Air Force/U.S. Army International Committee on Challenges of Modern Society (CCMS) subcommittees on noise effects, the International Committee on the Biological Effects of Noise (ICBEN), the Acoustical Society of America Animal Bioacoustics technical committee, and the Department of Defense (DoD) Noise Working Group.

2 Literature Review

Noise disturbance studies have often been anecdotal and fail to quantitatively measure either the stimulus or the behavioral response related to the animal's fitness. Predictive models for the relationship between disturbance dosage and quantifiable effects are even more scarce (Awbrey and Bowles 1990; Grubb and King 1991; Grubb and Bowerman 1997). Although many types of human disturbance have been reported as affecting birds (Fyfe and Olendorff 1976), very little research has addressed the effects of human activity on woodpeckers, especially the endangered RCW (Charbonneau et al. 1983; Jackson 1983; Beaty 1986; Jackson and Parris 1995; The Nature Conservancy [TNC] 1996; Pater et al. 1999; Delaney et al. 2000).

Few researchers have directly compared differences in bird responsiveness between aerial and ground-based disturbances (Bowles et al. 1990). Studies that have examined the effects of aircraft activity on nesting birds (e.g., Platt 1977; Windsor 1977; Ellis 1981; Anderson et al. 1989) have often noted a slight but insignificant decrease in nesting success and productivity for disturbed versus undisturbed nests. Anderson et al. (1989) noted a slight decline in the nesting success of experimental Red-tailed Hawk (*Buteo jamaicensis*) nests versus control nests (80 percent experimental versus 86 percent control success) after helicopter disturbances.

In contrast, ground-based disturbances appear to have a greater effect than aerial disturbances on the nesting success of some bird species. In their classification tree model of Bald Eagle (*Haliaeetus leucocephalus*) responses to various anthropogenic disturbances, Grubb and King (1991) determined that Bald Eagles in Arizona showed the highest response frequency and severity of response toward ground-based disturbances, followed by aquatic, and lastly by aerial disturbances. Delaney et al. (1999) reported similar findings for Mexican Spotted Owl (*Strix occidentalis lucida*) response to military helicopter activity and chain saws, observing that chain saws elicited a greater flush response rate than helicopters at comparable distances and noise levels.

A bird's behavior during the nesting season is an important determinant of its ultimate nesting success or failure (Hohman 1986). Various bird species have been reported to abandon their nests after being exposed to ground-based and aerial disturbances. White and Thurow (1985) reported that approximately 30

percent of Ferruginous Hawks (*Buteo regalis*) abandoned their nests after being exposed to various ground-based disturbances, but there were no controls for comparison. Anderson et al. (1989) reported that 2 of 29 Red-tailed Hawk nests were abandoned after being flushed by helicopter flights, compared with 0 of 12 control nests. Ellis et al. (1991) found only 1 of 19 Prairie Falcon (*Falco mexicanus*) nests were abandoned when exposed to frequent low-altitude jet flights during the nesting season (no control sites used). Platt (1977) reported similar rates with only 1 of 11 Gyrfalcon (*F. rusticolus*) nests failing (reportedly due to snow damage), compared with 0 of 12 control nests. Of the 6 Peregrine Falcon (*F. Peregrinus*) nests exposed to helicopter flights, only 1 was abandoned (also apparently due to inclement weather) compared with 0 of 3 control sites (Windsor 1977).

Birds may be more susceptible to disturbance-caused nest abandonment early in the nesting season, possibly because parents have less energy invested in the nesting process (Knight and Temple 1986). Some animals appear reluctant to leave the nest later in the nesting season (Anderson et al. 1989; Ellis et al. 1991; Delaney et al. 1999). Steenhof and Kochert (1982) reported that Golden Eagles (*Aquila chrysaetos*) and Red-tailed Hawks exposed to human intrusions during early incubation had significantly lower nesting success than individuals exposed later in the season (45 percent success for Golden Eagles and 57 percent for Red-tailed Hawks within experimental groups versus 71 percent and 74 percent success with control groups, respectively). Although reactions of adult birds at the nest can influence hatching rates and fledgling success (Windsor 1977), flush behavior of adult birds from the nest is poorly quantified (Fraser et al. 1985; Holthuijzen et al. 1990; Delaney et al. 1999). In the few studies that have examined bird responses to specific disturbance types (e.g., aircraft approach distance), flush rates were higher if birds were naive (i.e., not previously exposed; Platt 1977). Some birds are more reluctant to flush off the nest during incubation and early nestling phases than later in the season (Grubb and Bowerman 1997; Delaney et al. 1999). Animal responsiveness has been shown to increase as the nesting season progresses (Grubb and Bowerman 1997). Delaney et al. (1999) found that Mexican Spotted Owls were more responsive to helicopters later in the reproductive cycle, which suggests that adult defensive behavior may decrease as the young mature. In contrast, Holthuijzen et al. (1990) found Prairie Falcon responsiveness to nearby blasting activity decreased as the nesting season progressed.

Few studies have documented the threshold distance that causes birds to flush in response to noise disturbance events. In those studies that reported stimulus distance, it was rare for birds to flush when the stimulus distance was greater than 60 m (Carrier and Melquist 1976; Edwards et al. 1979; Craig and Craig

1984; Delaney et al. 1999, 2000; Pater et al. 1999). Similar findings were reported by Carrier and Melquist (1976) for Osprey (*Pandion haliaetus*), and Ellis (1981) for Peregrine Falcons. Many disturbance study reports imply that animal response increases with decreasing stimulus distance (Platt 1977; Grubb and King 1991; McGarigal et al. 1991; Stalmaster and Kaiser 1997), though only a few studies have experimentally tested this relationship (Delaney et al. 1999, 2000; Pater et al. 1999). Delaney et al. (1999) found that the proportion of owls flushing in response to a disturbance was strongly and negatively related to stimulus distance and positively related to noise level. Spotted owls were not observed flushing when noise stimuli were > 105 m from owl locations. Delaney et al. (2000) and Pater et al. (1999) found similar results when RCW were exposed to passive and experimental military training noise. Red-cockaded Woodpeckers did not flush from the nest when: artillery simulator blasts were > 244 m from nests; military helicopters were > 60 m; small-caliber live fire was > 400 m; large caliber live fire was > 700 m; and when grenade simulators were > 200 m. Delaney et al. (2000) also tested .50-caliber blank fire events and found that RCWs flushed only 1 in 9 noise events at 122 m. They were not able to test at distances > 122 for that specific RCW group before the young were too old and therefore, adults were not as actively attending the nest.

Even fewer examples are available for noise response thresholds. Snyder et al. (1978) reported that Snail Kites (*Rostrhamus sociabilis*) did not flush even when noise levels were up to 105 decibels, A-weighted (dBA) from commercial jet traffic. This result was qualified by the fact that test birds were living near airports and may have habituated to the noise. Edwards et al. (1979) found a dose-response relationship for flush responses of several species of gallinaceous birds when approach distances were between 30 and 60 m and noise levels approximated 95 dBA. Delaney et al. (1999) reported that Mexican Spotted Owls did not flush during the nesting season when the sound exposure level (SEL) for helicopters was ≤ 92 dBA and the Equivalent Average Sound Level (LEQ) for chain saws was ≤ 46 dBA. Noise response thresholds were fairly comparable with data from the nonnesting season (SEL of 92 dBA for helicopters and LEQ of 51 dBA for chain saws). Delaney et al. (2000) and Pater et al. (1999) developed noise response thresholds for RCWs based on a number of military noise sources. Pater et al. (1999) and Delaney et al. (2000) reported that woodpeckers did not flush during the nesting season when the sound exposure level (SEL) for artillery simulators was < 84 dBA (89 dB, unweighted); .50-caliber blank fire was < 72 dBA (82 dB, unweighted); military helicopter overflights were < 85 dBA (102 dB, unweighted); small-caliber live fire events were < 77 dBA (79 dB, unweighted); large caliber live fire events were < 85 dBA (103 dB, unweighted); and grenade simulators were < 84 dBA (91 dB, unweighted).

Distance has been described as the most commonly used surrogate for noise disturbance in the literature on animal response to noise, and has been proposed to be the best representative for quantifying the relationship between stimulus and response measures (Awbrey and Bowles 1990). The reason appears to be that distance is more conveniently implemented into management practices (i.e., establishing buffer zones) than other variables. However, use of a properly measured noise level as the stimulus measure facilitates broader application of response results, in particular to sources of similar aural character but different acoustic power emission.

3 Technical Approach

Null Hypotheses

Data collection, summary, and statistical analyses to assess and characterize military training noise in RCW groups, and to evaluate the relationship between noise levels and RCW demographic data, are based on the following formal null hypotheses:

- Ho: There is no difference in the nesting success, productivity, or nesting behavior between disturbed and undisturbed RCW groups.
- Ho: There is no relationship between stimulus distance or noise level and RCW response behavior.
- Ho: There is no difference in RCW response between types of training activities.

Study Area

Fort Stewart is located in southeast Georgia (Figure 2), within Liberty, Long, Bryon, Tattnall, and Evans counties, and is the largest Army Installation east of the Mississippi River. Physiographically, this area lies within the Atlantic Coastal Flatwoods Province, within a humid, semi-tropical latitude, and averages 50 in. (127 cm) of rain per year. The average temperature in January is 62 °F (44 °C) with a relative humidity of 70 percent, while July averages 91 °F (32 °C) with a relative humidity of 76 percent. Approximately 66 percent of the 112,745 ha of the installation are terrestrial and cover three main forest types: upland pine stands composed primarily of longleaf (*Pinus palustris*), loblolly (*P. taeda*), and slash pine (*P. elliottii*); mixed pine-hardwood sites; and hardwood stands. The remaining habitats include various wetland types and open water (Fort Stewart ESMP Team 1998).

The primary mission of Fort Stewart is training and operational readiness of the 3rd Infantry Division (Mech.) and other nondivision units. The 3rd Infantry Division (previously the 24th) was activated in 1975 and redesignated as a mechanized division in 1979 (Hayden 1997). Training activities are conducted year-round at Fort Stewart to maintain a combat ready fighting force. The installation also supports training of regional National Guard and Reserve units, as well

as joint training exercises with troops from other installations and DoD Branches (Fort Stewart ESMP Team 1998).
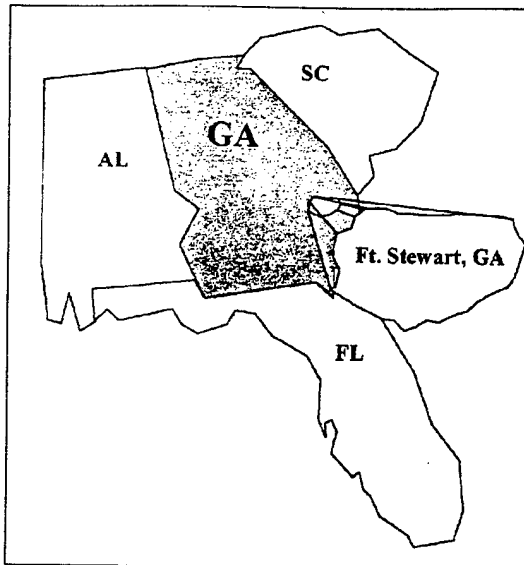
Figure 2. Location of Fort Stewart within the state of Georgia.

Fort Stewart contains a variety of impact and firing areas (Figure 3). The central feature of the installation is the Artillery Impact Area (AIA; about 5,200 ha), which is surrounded by dozens of artillery firing points varying in distance from a few hundred meters to thousands of meters from the impact area. On the western border of the AIA is the Red Cloud Multipurpose Range Complex (MPRC) containing eight separate ranges. Just south of the AIA is the Explosive Ordnance Disposal Area (EOD), the Demolition Area (DEMO), and the Small Arms Impact Area (13 live fire ranges, about 2,300 ha). To the east and northeast of the AIA are the Calfax and Luzon Ranges, and three smaller Aerial Gunnery Ranges (AGRs). There are also seven drop zones located throughout the installation (Hayden 1997).

Sample Cluster Selection

There are 305 known RCW clusters (the aggregate of cavity trees used by a group of RCWs) distributed across Fort Stewart (Figure 3). None are known to be in the AIA because this area has not been surveyed due to safety concerns. Of the approximately 212 reproductively active (potential breeding pair present) RCW groups in 2000, we chose 50 groups for experimentation during the third field season. This was comparable to the number of experimental groups examined during the 1999 field season (Delaney et al. 2000). We classified RCW groups according to type and level of training noise based on: (1) number, (2) dis-

tance, and (3) noise levels of stimulus events that each group typically receives. Three types of sample groups were chosen: passive disturbed, undisturbed, and experimental. "Passive disturbed" groups were those groups that received potentially significant noise disturbance as part of normal training operations; we had no direct control over time, number, or level of noise events at these clusters.

Ft. Stewart Special Purpose Areas
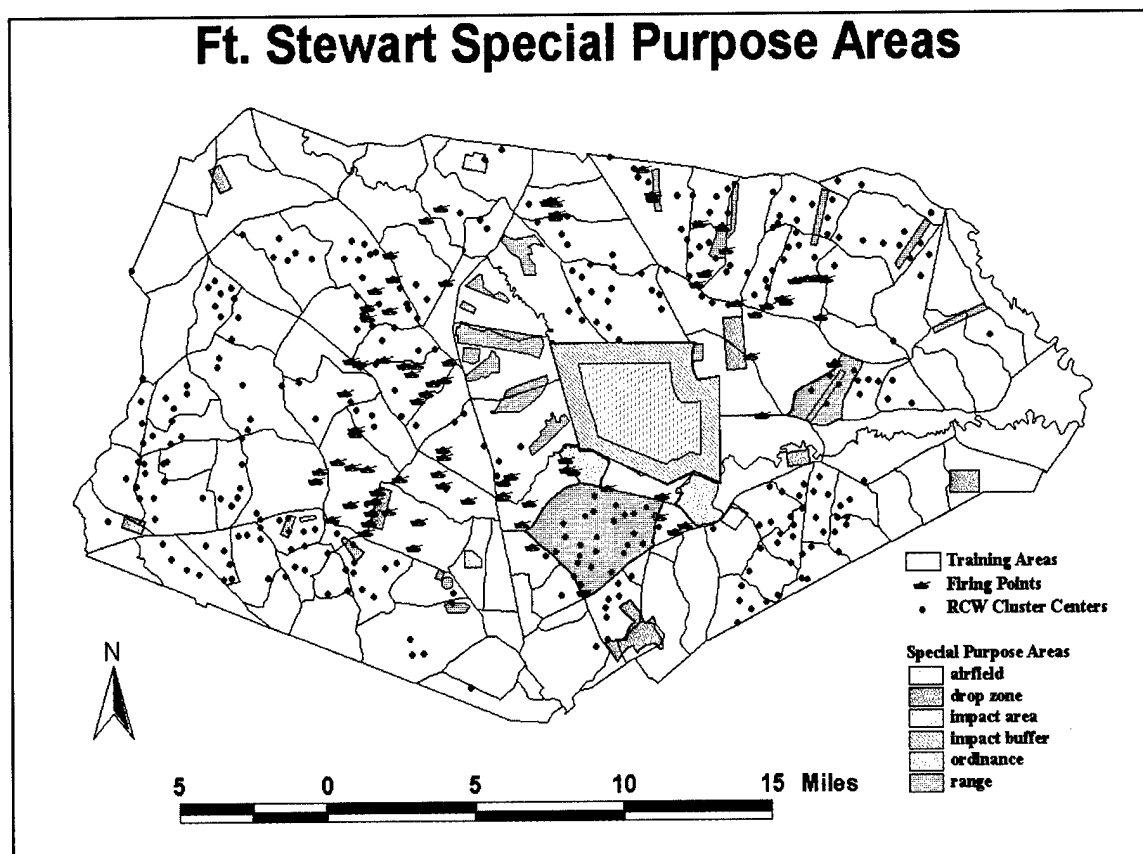
Figure 3. Locations of training areas and RCW groups on Fort Stewart. Green dots represent RCW locations.

Noise types include large-caliber live fire, small arms live fire, grenade and artillery simulators, and helicopter flights. We attempted to choose RCW groups that received predominantly one type of noise, but this was sometimes impossible if we were to also use the highest noise level groups. "Undisturbed" or "low disturbance" RCW groups (the two terms are equivalent and are used interchangeably in this report) are groups where noise levels were judged likely to be consistently low or absent for all of the noise types. At these groups we documented sound levels, observed behavior, and measured success as a baseline for judging impact at disturbed groups. It is likely that at least some level of military noise of some type can be perceived at every RCW group on Fort Stewart. Our criterion for low disturbance is noise levels at or near ambient noise levels. At "experimental" RCW groups we exposed birds to either artillery simulators (Figure 4) or .50-caliber blank fire (Figure 5) under controlled conditions at distances of 15.2, 30.5,

45.7, 61.0, 76.2, 91.5, 122.0, 152.4 and 244.0 m from the nest tree (Appendix B, Tables B1 and B2). Not all distances were tested for each noise source or RCW group because bird response dictated which distances would be used for developing a distance-response threshold. Experimental groups were chosen from among birds that had low to moderately low disturbance levels. This implies that birds in these groups were not habituated to the noise stimulus. Sample size was limited by the number of groups that fit protocol criteria and by available field observations.

Figure 4. Artillery simulator blast.

Figure 5. .50-caliber blank fire.

Impact Measures

Selection of noise impact criteria is a critical issue. For humans the response criterion is typically annoyance. For domesticated species the issue may be damage to individual animals or impacts on profits. For TES, the ultimate concern is long-term survival of the species. The challenge is to develop a relatively short-term procedure for inferring impact on long-term survival. The conceptual approach used in this study is depicted in Figure 6. First, proximate responses to the noise stimulus are measured. A proximate response is the direct and immediate response of the animal to the stimulus; for example a behavioral (e.g., flight) or a physiological (e.g., change in heart rate) response. This tracks with the first regulatory decision criterion of the Endangered Species Act (ESA), that is, whether the action or activity "may affect" the species. Next, we examine whether the stimulus that elicited the proximate response affects "individual fitness" which is typically evaluated in terms of adult and juvenile mortality or reduced nesting success. Mortality and nesting success are established by field monitoring of many individuals throughout the nesting season. This level of effect tracks with the next decision criterion of the ESA, namely whether the action or activity is "likely to jeopardize the continued existence" of the species. Population effects will be inferred from measures of individual fitness by application of population viability analysis (PVA) models. Current applications of PVA do not capture the temporal and spatial variability of training events, and thus cannot model the resulting effects on endangered species' demographic parameters. Researchers at the Engineer Research and Development Center, Construction Engineering Research Laboratory (ERDC/CERL) currently are developing PVA modeling approaches capable of capturing training effects in predictive population models. This is a shared effort under this project and a related ERDC/CERL research effort to evaluate effects of maneuver training (vehicles and troops) on RCWs.
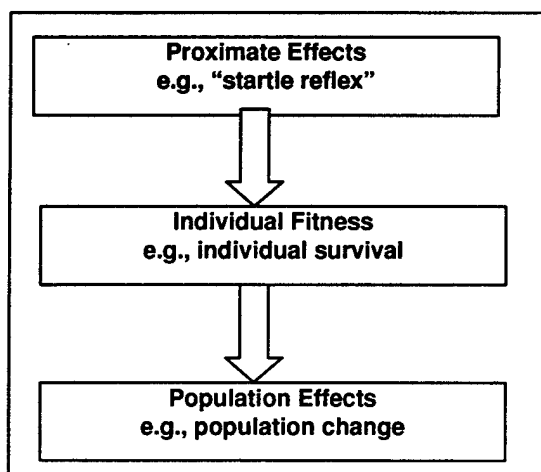
Figure 6. Assessment hierarchy for training impact on threatened and endangered species.

In summary, the research paradigm is that proximate effects can be linked to individual fitness, which in turn can be linked to population effects. As a specific example, consider that a bird might flush from a nest (a proximate response) in response to a noise event. It is possible that this could lead to failure of the nest, especially if the noise and flush response occurred repeatedly. Monitoring is required to determine nesting success of disturbed and undisturbed nests. A population model is required to determine if such failure of some percentage of nests has an effect on survival of the population.

Behavior and Proximate Response Measurement Protocols

We documented woodpecker behavior at low and high noise disturbance nest sites by direct observation and through video surveillance. We divided the nesting cycle into three stages: incubation (eggs present from nest day 0 to 10), brooding (adult RCWs attend young chicks between 1 to 4 days old to assist with thermoregulation: nest days 11 through 14), and nestling (larger chicks typically unattended for long periods of time in nest: day 15 until fledging around nest day 25-26). A "data session" consisted of behavioral observations of at least one adult RCW, typically for 1 hour or longer. At disturbed RCW groups we attempted to observe behavior for at least 30 minutes before and after each noise event. This was sometimes not possible for passive disturbed groups because noise events were so frequent that we could not document undisturbed behavior for extended periods of time.

To evaluate RCW baseline behavior and responses to military training activities, we measured several parameters:
1. Alert - RCW moves to the cavity mouth, head movements, orient to noise source;
2. Flush from nest - RCW departs from the nest cavity in response to the stimulus, and remains away from the nest for a measured period of time;
3. Return time - length of time an adult is away from the nest cavity after being flushed;
4. Nest attentiveness - proportion of time that adult RCWs spend attending the nest cavity through the nesting season (calculated for diurnal, 24-hour periods, and for the incubation and nestling phases);
5. Prey deliveries - number and rate of prey deliveries to the nest cavity;
6. Trips - number and duration of times the attending adult left the nest cavity.

RCW behavior categories 4 through 6 will be presented in the final report after the data have been fully analyzed.

Demographic and Nesting Success Data

RCW demographic data (population size, growth, density, and distribution) were collected in accordance with established protocols used by the Fish and Wildlife Branch DPW on Fort Stewart. Demographic data included the following parameters for each RCW group:

1. Cluster occupancy - cluster occupied by one or more RCWs. Most individuals are identified by unique leg band combinations (provides a measure of population size, growth, and stability);
2. Mated status - presence of both an adult male and an adult female RCW;
3. Active nest — at least one egg was laid;
4. Nesting success - at least one fledgling was produced (provides a measure of the proportion of RCW groups that are reproductively successful);
5. Nesting productivity - number of young fledged per nest (provides a measure of fecundity);
6. Number of eggs produced;
7. Number of nestlings hatched;
8. RCW group size - (provides a possible measure of territory quality and availability).

These data enable several trends to be detected:

1. Reproductive loss - mortality rate of eggs, nestlings, and fledglings during nesting;
2. Annual nest reoccupancy rates - provides a potential measure of RCW response to disturbance. Sites with heavy disturbance levels may be abandoned in subsequent years in favor of other sites further from specific disturbances;
3. Site tenacity - turnover rate of adult and helper RCWs within a cluster across years;
4. Nesting success rates for disturbed and undisturbed RCW groups;
5. Mean number of young fledged for disturbed and undisturbed RCW groups;
6. Mean clutch and brood size for disturbed and undisturbed RCW groups;
7. Reproductive potential - total number of young that could be produced if all eggs and nestlings survived to fledge successfully.

Most of the demographic data for Red-cockaded Woodpecker groups was collected by DPW Fish and Wildlife personnel from Fort Stewart. Each active (at least one RCW present) RCW group was initially visited to determine the occupancy. Adult RCWs were banded to determine group size and affiliation using methods similar to Walters et al. (1988). A 25 percent random sample of all RCW groups were then monitored approximately every 7 to 9 days to record clutch and brood size. Nestlings were uniquely color banded approximately 4 to 6 days after hatching. Groups were visited 20 to 25 days after nestlings were banded to de-

termine the number and sex of fledglings (Walters et al. 1988). The 25 percent sample included many of our sample groups. We augmented the DPW Fish and Wildlife sample by monitoring demographic data (particularly the number of young fledged) for additional RCW groups to provide more complete coverage of our sample groups.

Video Surveillance

Video cameras were used as a means to record RCW behavior over prolonged periods, to reduce costs, and to avoid potentially disruptive effects of human presence. The camera systems also documented response in areas that could not be safely monitored (e.g., downrange from firing positions). Cameras were attached to tree trunks with adjustable, jointed angle-brackets and screws. Cameras were mounted at the same level or slightly above nest height in the nearest practical tree and at least 5 m from the nest tree so as not to disturb incubating woodpeckers. Power and coaxial cables were covered with camouflaged cloth and were attached to a 10.5 cm, DC (direct current) monitor and battery so camera placement could be directed from the base of the camera tree. At least two people are required for camera placement: a climber to position the camera and a person on the ground to check the video signal and placement. Then a trunk line is attached at the base of the tree (covered by a camouflaged 1.2 cm diameter hose for protection against rodents), allowing the power/recording station to be placed 60 m from the tree to minimize potential disturbance to the woodpeckers. We put the recorder, twin batteries, and all connectors inside a weatherproof bin concealed under a camouflaged tarpaulin. Freshly recharged batteries are used for each set of recordings. We used charge-coupled device (CCD) video-board cameras (both black and white and color) to document RCW behavior at 25 nest sites (11 experimental, 7 passive disturbed, and 7 control) during the 2000 nesting season. The solid state, 12-volt, flexible circuit-board black and white cameras were equipped with 12.0-mm lenses, while the color cameras had 75-mm lenses. The cameras provide a minimum of 380 lines of resolution and have a minimum sensitivity of 0.45 Lux. Black and white cameras are mounted in waterproof heavy-gauge plastic switch boxes with transparent covers (12.9 x 6.7 x 4.1 cm) which are painted black, except for the lens and LED (light-emitting diode) area. Color cameras were housed in metal weatherproof containers. Two ports are threaded into the protective housing: one for the power supply and the second for the video signal (Delaney et al. 1998). Panasonic Model AG-1070DC Professional/ Industrial VHS video recorders, connected to cameras via coaxial cable (RG-59), provided approximately 24 hours of coverage per tape. These 12-volt, DC-powered recorders were designed for surveillance applications. Cameras and video recorders are powered by two 12-volt, 33.0-amp-hour, Power-

Sonic Model PS-12330 sealed rechargeable batteries connected in parallel (a 24-hour taping would draw a single battery below operational limits). These "gel-cell" type batteries (weighing 11.3 kg each) reduce the risk of battery damage, and eliminate the potential for spillage during backpack transport.

Sound Instrumentation and Recording

Sony TCD-D8, Digital Audio Tape (DAT) recorders were used to continuously record all noise events, along with the exact time and date. We attached Bruel & Kjaer (B&K) Type 4149 1.3 cm Condenser Microphones with 7.5 cm wind screens to B&K Model 2639 Preamplifiers, mounting the microphone on a 1 m stick, and placing the unit directly under a woodpecker's nest about 1 m from the tree trunk. The power supply and DAT recorder were also placed at the base of the nest tree in a small camouflaged container. A 1.0-kHz, 94-dB calibration signal (20 micropascals reference) from a B&K Type 4250 Sound Level Calibrating System was recorded before and after each noise event recording. This signal provides a reference for sound levels and spectra when data are later analyzed using a B&K Type 2144 Frequency Analyzer. All noise data were analyzed at ERDC/CERL. In addition to recording noise levels at the base of the nest tree, we also recorded noise levels within cavities after the nesting season.

Sound Metrics

Noise is defined as sound that is undesirable or constitutes an unwarranted disturbance, and can alter behavior or normal functioning (ANSI S1.1-1994). The types of military noise that are within the scope of this study vary widely in instantaneous transient amplitude, duration, spectral energy content, and suddenness of onset. Appropriate noise metrics and frequency weighting are essential to adequately quantify noise impact for each type of noise. Noise metrics are chosen to measure the noise dose in a way that meaningfully correlates with subject response. Frequency weighting is an algorithm of frequency-dependent attenuation that simulates the hearing sensitivity and range of the study subjects. Frequency weighting discriminates against sound that, while easily measured, is not heard by the study subjects. The current project requires specialized metrics and techniques to meaningfully measure noise impacts on animals. Our paradigm is to measure noise events in terms of unweighted one-third-octave band levels, apply frequency weighting to the resultant spectra, and calculated appropriate overall metrics.

Only noise that is audible to the study species should be accounted for in the metric used to quantify noise level. Frequency weighting designed for humans may not be appropriate for animal species. The commonly used "A" frequency weighting (ANSI S1.4-1983) attenuates noise energy according to human hearing range and sensitivity. For human response to blast noise, "C" frequency weighting is often applied to received blast noise signals, rather than "A" weighting which is more representative of human hearing response (ANSI S1.4-1983). This is done to retain low frequency energy that, while not heard by humans, causes a secondary rattle in buildings which does evoke response (ANSI S12.4-1986). This is not appropriate for most wildlife. An audiogram, which describes hearing range and sensitivity, provides guidance regarding appropriate frequency weighting for the species of interest and aids in interpretation of noise response data. We searched the literature and consulted several leading experts on bird hearing without finding an audiogram for the RCW or for any species in RCW's order, *Piciformes*. Thus, as part of this project we obtained a preliminary woodpecker audiogram that will be used to develop a frequency weighting function. Figure 7 shows the woodpecker audiogram, a composite average audiogram of seven orders of birds, with an approximate representation of a human audiogram. The differences are substantial. The owl audiogram further illustrates how audiograms can vary among species. Additional information on the current RCW audiogram work can be found in Pater et al. (1999).

It is well-established (ANSI S12.40-1990; S12.9-1996; S12.17-1996; Homans 1974; NAS 1977, 1981; Rice 1983; Rice et al. 1986; Schomer et al. 1994) that the appropriate metric for blast noise is SEL, which is essentially the time integral of the square of the acoustic pressure. We measured blast noise as unweighted one-third-octave band SEL, to which frequency weighting appropriate for the RCW will be applied (when available from the audiogram portion of this study, described in Appendix B) to obtain appropriately weighted overall levels. The same metric and procedure was also used with small arms noise (Buchta 1990; Hede and Bullen 1982; Hoffman et al. 1985; Luz 1982; Sorenson and Magnusson 1979; Vos 1995). Two metrics, the SEL and the maximum 1-second equivalent average (LEQ) level, were used for helicopter noise, airplane noise, and vehicle pass-by noise, since both are meaningful in terms of correlation with response (Environmental Protection Agency [EPA] 1974, 1982; Federal Interagency Committee on Urban Noise [FICUN] 1980; Fidell et al. 1991; Schomer 1994; Schultz 1978; U.S. Code of Federal Regulations 1980). Ambient noise was measured as LEQ for various appropriate time periods (EPA 1982). In all cases, the noise signals were recorded on digital audio tapes and preserved for possible further analysis.
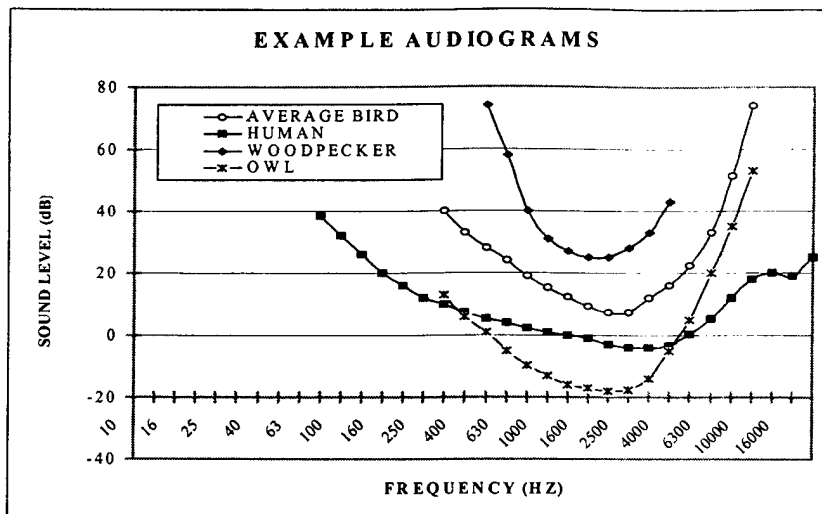
Figure 7. Examples of audiograms and frequency weighting.

Statistical Data Analysis

We used SPSS 8.0 for Windows (SPSS Inc. 1998) to perform all descriptive statistics; for example, one-way ANOVA for comparing the mean number of eggs, nestlings, and young fledged between the first and second nesting attempts. Independent sample t-tests were used to compare nest productivity data between experimental and control sites. Whenever appropriate, multiple observations at single nests were averaged before inferential tests were performed so that the sample sizes are the number of nests examined. We used a one-tailed Fisher Exact Test to assess 2x2 contingency tables for variability in nesting success between disturbed and undisturbed nest sites (Zar 1984). We used Sample Power 1.0 to conduct power analyses (Borenstein et al. 1997). Alpha levels of 0.05 will be required to reject a null hypothesis for all tests. Means ± standard error (SE) are presented throughout this document.

4 Results

Initiation Dates for Each Nesting Phase

The first woodpecker clutches were initiated on approximately 10 April through 3 June, while secondary clutches (groups that renested after initial nest failure) were initiated on 2 May through 15 June. Eggs from initial nesting attempts hatched on approximately 24 April through 16 June, while nests from second nesting attempts hatched on 15 May through 27 June. We observed young fledging from initial nesting attempts on 20 May through 12 July, and from 11 June through 22 July for fledglings from secondary nesting attempts. There were no third nesting attempts observed during the 2000 nesting season.

Overall Population Dynamics

Of the 212 potential breeding RCW pairs on Fort Stewart, 170 nested during the 2000 nesting season (80.2 percent). This was a 7.1 percent increase over the number of potential breeding pairs (N = 198) and a 3.0 percent increase in the number of groups that nested (N = 165) on Fort Stewart in 1999. Of the groups that nested, 79.4 percent fledged young successfully. Nineteen of the 35 groups that initially failed to nest were found renesting within the following 2 weeks, with 57.9 percent of those groups successfully fledging young. Groups that renested were found to be as reproductively successful (Fisher Exact Test, $P = 0.054$; 57.9 percent for groups that renested versus 81.6 percent for initial nesting attempts) and productive as groups that nested only once. We observed no statistically significant difference in number of eggs ($F_{1,169} = 1.40$, $P = 0.24$), nestlings ($F_{1,166} = 0.01$, $P = 0.93$), or the number of young fledged ($F_{1,169} = 0.31$, $P = 0.58$) between groups that renested and those that nested only once. We then pooled these data to determine mean rates for the overall population. Mean clutch size for RCW nests was 2.95 ± 0.07 eggs/nest; mean brood size was 2.01 ± 0.08 nestlings/nest; and the number of young fledged was 1.57 ± 0.08 young/occupied nest (1.83 ± 0.08 young/successful nest). Occupied nests include groups that are successful as well as groups that are not. Successful nests include only those groups that are successful in fledging young. Approximately 279 young fledged from RCW groups during 2000, with 53.8 percent of those young being female.

There was a 38.6 percent decline in the reproductive potential of RCW nests from the incubation phase to the nestling phase ($F_{2,550}$, $P < 0.001$). The decline between the nesting and fledgling phase was 14.0 percent, but was not significant ($F_{2,550}$, $P = 0.11$). Overall, we observed a significant decline of 47.1 percent in the reproductive potential from incubation through the fledgling phase ($F_{2,550}$, $P < 0.001$).

Sample Group Population Dynamics

Of the 50 nesting RCW groups that received disturbance testing, 80.0 percent successfully fledged young. Eight of the 16 groups that initially failed to nest were found renesting within the following 2 weeks, with 62.5 percent of these groups successfully fledging young. Groups that renested were as reproductively successful (Fisher Exact Test, $P = 0.15$; 62.5 percent for groups that renested versus 83.3 percent for initial nesting attempts) and productive as groups that nested only once. We observed no statistically significant difference in number of eggs ($F_{1,49} = 0.54$, $P = 0.47$), nestlings ($F_{1,49} = 0.39$, $P = 0.53$), or the number of young fledged ($F_{1,49} = 0.01$, $P = 0.94$) between disturbed groups that renested and those that nested only once. Therefore, data were pooled before determining overall sample group fitness rates.

Disturbed and undisturbed RCW groups did not differ significantly in the number of eggs ($F_{1,76} = 2.81$, $P = 0.10$), number of nestlings ($F_{1,76} = 0.31$, $P = 0.58$), or number of young fledged ($F_{1,76} = 0.35$, $P = 0.56$). Forty of the 50 disturbed RCW groups were successful in producing an average of 3.00 ± 0.81 eggs/nest, 1.68 ± 1.20 nestlings/nest, and 1.54 ± 1.01 young/occupied nest (1.94 ± 0.70 young/successful nest), while 25 of 27 (92.6 percent) undisturbed groups were successful in producing an average of 2.71 ± 1.03 eggs/nest, 1.62 ± 1.10 nestling/nest, and 1.59 ± 0.96 young/occupied nest (1.93 ± 0.66 young/successful nest). The number of disturbed groups that successfully nested was not significantly different from undisturbed groups (Fisher Exact Test, $P = 0.16$). For disturbed groups, 8 of the 50 (16.3 percent) nesting attempts were second attempts. The number of disturbed groups that renested was not significantly different from undisturbed groups (Fisher Exact Test, $P = 0.42$). For undisturbed groups, 5 of 27 (18.5 percent) nesting attempts were second attempts. We found no difference in the reproductive success (Fisher Exact Test, $P = 0.13$) or productivity ($F_{1,48} = 1.69$, $P = 0.20$) for RCW groups exposed with artillery simulator blast noise versus sites that received .50-caliber blank fire.

Power Analysis

We conducted power analyses based on the reproductive success of disturbed and undisturbed RCW groups during the 2000 field season. There was a 0.35 probability of detecting a statistically significant result based on a 10 percent decrease in reproductive success in disturbed nest sites (Alpha level of 0.05; 1 tailed test). Power increased to 0.55 for detecting a 15 percent decrease in reproductive success, and to 0.71 for a 20 percent decrease. Based on the 13 percent difference observed in 2000, we had a 0.47 probability of detecting a significant decrease. We found that the reproductive success of RCWs varied by year and category (disturbed, undisturbed, and overall population level) on Fort Stewart. The overall reproductive success rate for RCWs on Fort Stewart ranged from 79.4 to 87.7 percent (Range: 8.3 percent) during 1998 through 2000. These were similar to rates observed for disturbed RCW groups (80.0 to 87.5 percent Range: 7.5 percent but were lower than rates for undisturbed groups (81.3 to 92.6 percent Range: 11.3 percent).

Noise and Response Monitoring Summary

During the 2000 field season we documented RCW response to experimental noise from controlled .50-caliber blank fire and artillery simulators. Passive noise from large-caliber live fire (20-mm M2A2 Bradley Fighting Vehicles, 120-mm M1A1-Tanks, and 155-mm M109 Howitzers), small-arms live fire (5.56-mm M-16 and Saw, 7.62-mm, and .50-caliber machine guns), grenade simulators, military helicopters, vehicles, MLRS, Stinger/Drone Missiles, and fixed-wing aircraft was recorded as it occurred. Passive noise was monitored during all nesting phases, while experimental tests were performed only during the incubation and early portions of the brooding phase when adults were present at the nest for extended periods of time.

We made noise measurements and behavioral response observations at a total of 50 experimental and 31 passive sample groups (21 of the 31 passive sample groups were also used in experimental testing). Detailed results are described below and are presented in the data tables and figures in Appendices B, C and D. The tables of Appendix B present summaries of the noise level measurements and RCW responses for each of the noise sources recorded. A typical spectrum for the most prevalent noise sources is presented in Appendix C. Appendix D presents noise level summaries for each noise stimulus type and detailed noise measurements in terms of one-third-octave band SEL levels. These are the data to which future adjustments for cavity resonance and woodpecker frequency weighting will be applied to obtain single-number overall noise levels. We also

monitored a total of 27 undisturbed sample clusters for the purpose of obtaining baseline behavioral information against which to judge proximate response at the disturbed groups.

Passive Monitoring

We recorded 1,662 passive noise events in 59 data sessions at 31 RCW groups during the 2000 nesting season. Small-caliber live fire events (M-16 rifles and .50-caliber machine guns) were recorded most frequently, followed by large-caliber live fire events (greater than 20-mm), Missiles (MLRS and Stinger/Drone), vehicles, and helicopters. Multiple noise events and stimulus types were usually recorded during each data session. Stimulus type, frequency, and noise level varied for each RCW group and are shown in the tables of Appendix B.

Experimental Testing

We conducted 101 experimental tests at 50 RCW groups (26 groups received artillery simulator testing, while 25 received .50-caliber blank fire testing) during the 2000 nesting season (Appendix B, Tables B1 and B2). Cluster 81 was tested for both .50-caliber blank fire and artillery simulators, with only one noise type being tested during each of two nesting attempts. The second nesting attempt successfully fledged two young.

Noise Measurement Testing

In addition to recording noise levels at the base of active RCW nests, we also measured noise levels in cavities after the nesting season. Both natural and artificial cavities were tested in 2000. Cavities acted as sound resonators, emphasizing the 125 to 250-Hz portion of the frequency band, and varied by individual tree. In the examples presented in Figures C1 through C3 (Appendix C), artillery simulators, .50-caliber blank fire events, and grenade simulators had maximum spectral noise levels of 17.5, 24.4, and 14.2 dB louder, respectively, inside a cavity compared with recordings for the same events measured at the base of the tree. Ambient sound levels were substantially lower than experimental noise events during all tests (Tables B1 – B7).

Distance and Noise Level Thresholds for Response

Experimental Tests

Artillery Simulators

As stimulus distance decreased, RCWs flush frequency increased (Figure 8), regardless of stimulus type (Appendix B, Tables B1 and B2). RCWs did not flush from nests when artillery simulator blasts were > 122 m away and SEL noise levels < 70 dBA (72 dB, unweighted). RCWs returned to their nests on average within 4.2 minutes after being flushed, while returning no later than 16 minutes overall (Figure 9).
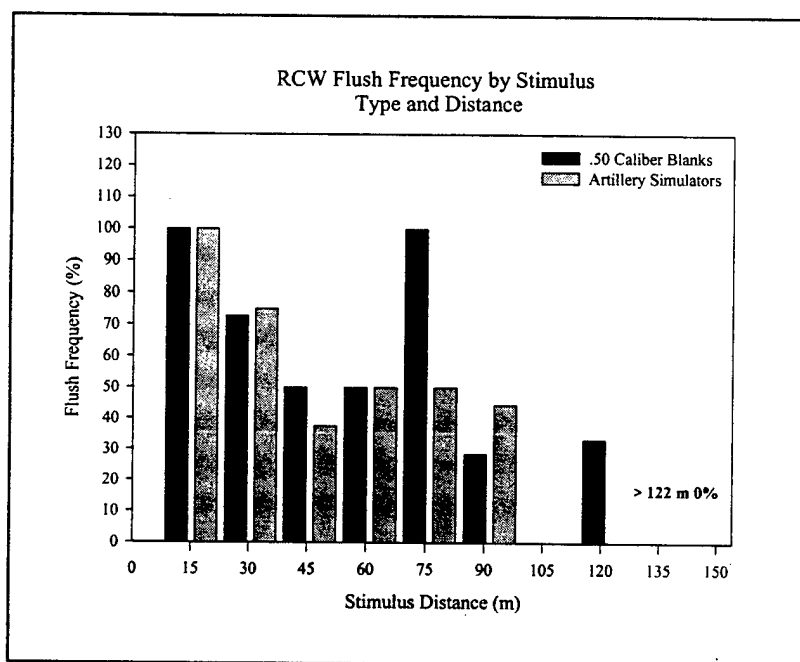
Figure 8. RCW flush frequency by stimulus type and distance.
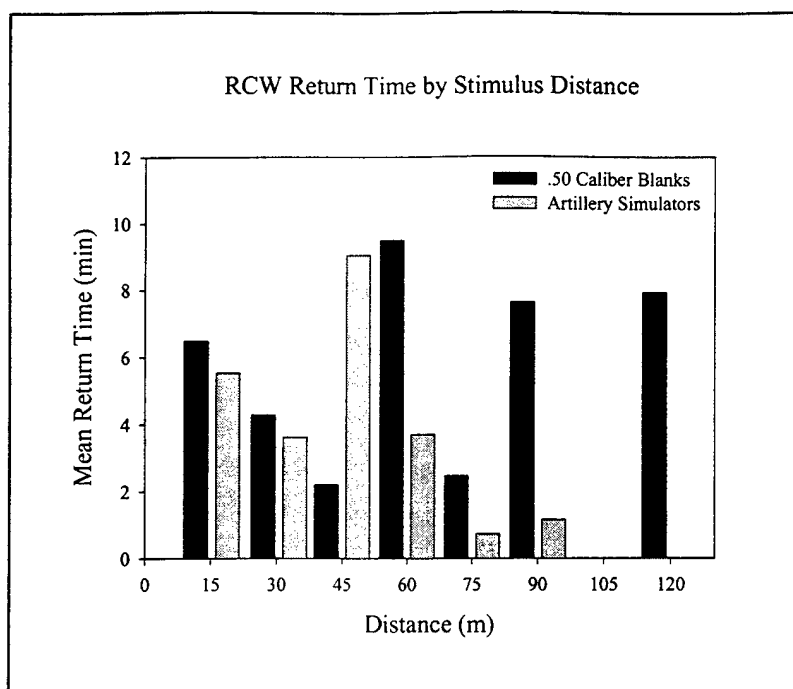
Figure 9. **Mean return time for RCWs in response to experimental testing.**

.50-caliber Blank Fire

We recorded only one flush response due to .50-caliber blank fire at 122 m. We tested RCW response to .50-caliber blank fire at distances > 122 m and did not observe any flush response at distances of 152 or 244 m. There was no difference in RCW flush response behavior towards .50-caliber blank fire and artillery simulators at comparable distances (Fisher Exact Test, $P > 0.05$). At distances < 122 m, .50-caliber blank fire and artillery simulators elicited similar response levels (52.8 percent) than comparably distanced artillery simulators (55.8 percent; Appendix B: Tables B1 and B2). RCWs did not flush from the nest when .50-caliber blank fire events were > 152 m away and SEL noise levels < 80 dBA (70 dB, unweighted). RCWs returned to their nests on average within 6.5 minutes after being flushed, while returning no later than 27 minutes overall (Figure 9).

Passive Events

Small-Caliber Live Fire

There was only one RCW group we examined, cluster 103, that received small-caliber live fire noise at distances less than 400 m. Noise levels at cluster 103 were louder than other clusters due to supersonic bullet noise ("sonic boom") and ricocheting bullets from an M-16 range (Small Arms - Golf) hitting trees in close proximity to the nest tree. The seven other clusters monitored for passive noise were either much further downrange or were positioned behind the firing lines compared with cluster 103 and therefore received lower noise levels. RCW groups located within live fire ranges were monitored remotely via video camera and audio recording equipment. When we compared the frequency spectra for muzzle blast noise versus bullet noise we found that most of the noise energy for muzzle blast noise occurred at 125 to 160 Hz, while peak supersonic bullet noise occurred at higher frequency levels, around 1600 to 2500 Hz. Bullet noise reached levels 20 to 30 dB louder than muzzle blast noise within the 1600 to 2500 Hz range and around 22 dB louder when peak levels for both noise events were compared (Figure 10). Bullet noise represented 22.0 percent (182 noise events, Table B3) of the noise events that were documented at cluster 103. Cluster 103 successfully fledged two young in 2000.

Overall, RCWs did not flush from the nest when small-arms live fire events were more than 200 m from active RCW nests and SEL noise levels were < 77 dBA (79 dB, unweighted; Appendix B, Table B3). Small-arms live fire events < 200 m did not represent shots from rifles themselves, but were from bullet noise. We were not able to determine the exact distances that bullets were hitting surrounding trees, but due to the received noise levels and the fact that we have seen bullets lodged in nearby trees, distances appear to be relatively close. Rifle noise from Small Arms - Golf M-16 range was approximately 430 m from the nest. We did not locate any other active RCW nests < 400 m from any small arms ranges to which we had access for testing purposes.
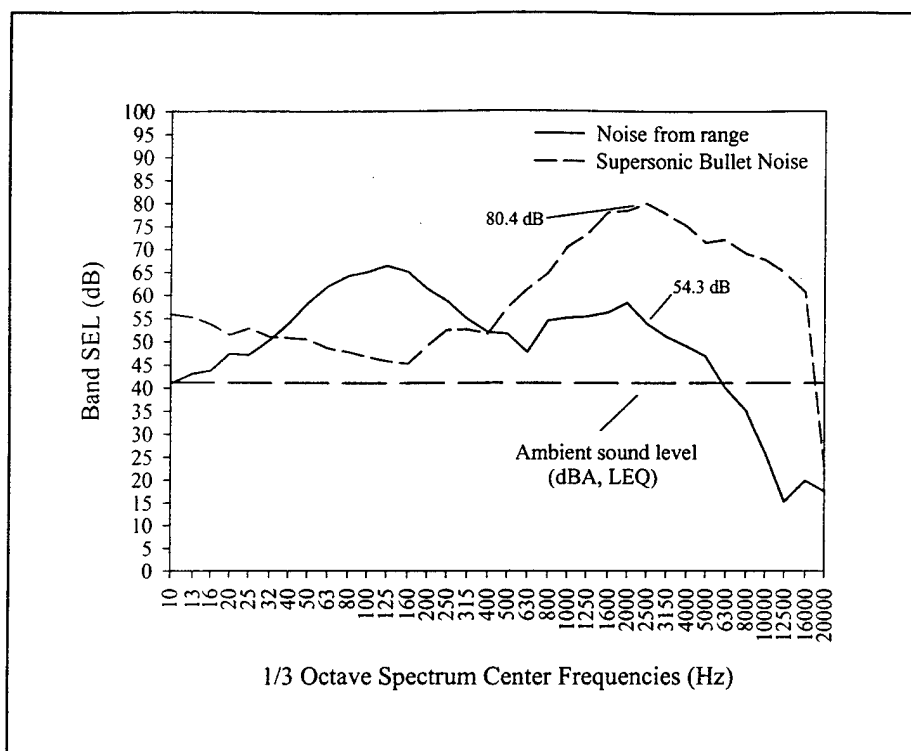
Figure 10. SEL weighting comparison for M-16 live fire at cluster 103 on 5 May 2000 from range and supersonic bullet noise near a RCW nest site.

Helicopters

Helicopter activity, as it relates to the frequency of events and pervasiveness across Fort Stewart, was substantially increased during the 2000 field season compared with 1998-1999. We recorded 53 noise events during 23 data sessions at 9 RCW groups during the 2000 field season (Appendix B, Table B4). We did not observe any flush responses relative to documented noise levels and stimulus distances. RCWs did not flush when military helicopters were > 30 m from nests and SEL noise levels were < 88 dBA (104 dB, unweighted; Appendix B, Table B2).

Large-Caliber Live Fire

The 2000 field season data show that RCWs did not flush when large-caliber guns were fired at distances > 1000 m from nests and SEL noise levels were < 75 dBA (102 dB, unweighted; Appendix B, Table B5). We did not record any large-caliber gun fire < 1000 m from any active RCW nest site, therefore, we could not test for response within that range.

Military/Civilian Vehicles

RCWs flushed twice in response to vehicle traffic during the 2000 nesting season. These flush events occurred at clusters 23 and 216 in response to a civilian vehicle and a Bradley Fighting Vehicle convoy, respectively. At cluster 216 a convoy of 17 Bradley Fighting Vehicles passed within 30 m of the nest tree eliciting a flush response by the attending adult. A bird was observed returning to the nest after the convoy had passed, within 10 minutes of the initial flush event. This site successfully fledged one young. The noise spectral data for a small portion of this event is in Figure C-3 (Appendix C). A second flush was observed at cluster 23 as a civilian vehicle passed within 30 m of the nest tree. A bird was observed returning to the nest within 3 minutes after the flush had occurred. This site failed during its first nesting attempt, but did successfully fledge 1 young during its second nesting attempt. The noise spectral data for that event is in Figure C-8 (Appendix C). RCWs did not flush overall when military vehicles were > 50 m from nests and SEL noise levels were < 63 dBA (75 dB, unweighted; Appendix B, Table B6).

Missiles

We were only able to record RCW response at the nest for one MLRS event at cluster 88 during the early brooding phase. This noise event did not elicit a flush response. All other missile recordings occurred prior to nesting or during the nestling phase (Appendix B, Table 7). Missile events shown in Table 7 at distances < 1000 m represent MLRS events at cluster 88. Missile events at distances > 2000 m represent Stinger/Drone Missile events at clusters 83 and 99. We were unable to test for RCW flush response at clusters 83 and 99 because it was late in the nestling phase and adults were not spending long periods of time at the nest (Appendix B, Table 7). RCWs did not flush when MLRS were fired > 750 m from nests and SEL noise levels were < 42 dBA (69 dB, unweighted; Appendix B, Table B7). Due to the low probability of encountering missile fire, we were unable to test for RCW response at distances < 750 m.

5 Discussion

Nesting Success

The preliminary findings, based on 2000 experimental testing data, suggest that measured noise levels and distances of training activities did not affect RCW nesting success or productivity. We believe the small but nonsignificant decrease in reproductive success and productivity between disturbed and undisturbed RCW groups was attributable to natural attrition inherent in the larger disturbed sample. Overall, reproductive success rates for disturbed sample groups appeared to be comparable with population level success rates, while undisturbed rates averaged higher. Based on the observed 7 to 11 percent variation of reproductive success rates (disturbed, undisturbed, and overall population levels) from 1998 to 2000, we believe that reproductive success rate differences of 20 percent between disturbed and undisturbed groups are biologically meaningful for RCWs and should be used when conducting power analyses. Such a rate level has been suggested by other researchers as biologically meaningful as well (Steidl et al. 1997). Based on a 20 percent difference in reproductive success, we believe that our data was robust (71 percent) in its ability to detect statistically significant differences in reproductive success rates between disturbed and undisturbed RCW groups. Our ability to detect for differences was somewhat reduced though due to limitations in sample size, especially concerning undisturbed groups. A sample size of 86 nests (or the equivalent of 103 for disturbed and 57 for undisturbed) for both disturbed and undisturbed groups would have been necessary to reach a power level of 0.80 for detecting a 10 percent difference in reproductive success (Alpha 0.05 for a 1 tailed test). Monitoring such a sample size for undisturbed groups would not have been possible. The sample size falls to 64 groups per category for detecting a 15 percent difference.

Flush Response and Related Behaviors

Flush Response

The proportion of Red-cockaded Woodpeckers that flushed in response to experimental training noise was negatively related to stimulus distance, regardless of stimulus type. The only exception to this trend occurred during .50-caliber

blank fire testing at the 76.2 m distance. We observed that RCWs flushed in all three presentations at that distance. There are a number of reasons why this might have occurred. It is possible that the flush rate at this distance is inflated due to the small sample size and that with increase testing rates would have decreased overall. It is also possible that the RCWs that received testing at that distance had become sensitized to early testing from the .50-caliber and responded more strongly than other woodpeckers that were not sensitized to this particular noise event.

The dose-response relationship for RCWs based on flush frequency with distance and noise level indicated that .50-caliber blank fire elicited similar response levels as artillery stimulators. It is possible that disturbances in closer proximity to an RCW's location may be more visible to RCWs from the mouth of the nest cavity and therefore elicit a greater response than a disturbance further away, regardless of noise level. It is important to consider all aspects, including visual impacts, of a stimuli when examining an animal's response to a disturbance. Although season and nesting phase influence avian response to disturbance (Thiessen 1957; Knight and Temple 1986; Delaney et al. 1999), habituation, prior experience, and animal temperament are important factors that should be taken into account (Hart 1985; Manci et al. 1988).

RCWs flushed infrequently in response to passive military training noise during the 2000 nesting season. Most of the passive noise events that we recorded were relatively distant compared with experimental testing and had moderate to low noise levels. Woodpeckers returned to their nests relatively quickly after being flushed. Return times by RCWs were comparable with times reported for bird species in other noise disturbance studies (Awbrey and Bowles 1990; Holthuijzen et al. 1990), and were comparable with 1999 RCW response data (Delaney et al. 2000). There did not appear to be a relationship between return time and stimulus distance. The amount of time that an attending adult is away from the nest has important consequences when we consider the role that nest predation and nest competition has on this species. Rat snakes frequently prey on cavity nesting birds (Jackson 1970), and have been documented to prey on RCW eggs and nestlings (Pater et al. 1999, Delaney et al. 2000). There are a number of species that are capable of usurping nesting cavities from the RCW. Both Red-bellied Woodpeckers (*Melanerpes carlinus*) (Kappes and Harris 1997) and Red-headed Woodpeckers (*Melanerpes erythrocephalus*) have been shown to remove and eat eggs, usually in the process of usurping the cavity from the RCW. We documented one instance where a Red-bellied Woodpecker ejected both a juvenile and an adult RCW in the process of usurping the nest. Both the adult and juvenile appeared to be unharmed from this event. Southern flying squirrels (*Glaucomys volans*) have also been documented to eat eggs when competing with RCWs for

nest cavities (Jackson 1994), though there is disagreement over whether cavity usurpation by flying squirrels significantly reduces reproduction of RCWs (U.S. Fish and Wildlife Service 2000).

Nesting Behaviors

We are currently analyzing RCW nesting behavior (collected by direct observation and video data) to determine if nest attentiveness, trip frequency, timing, duration, or the number of prey deliveries are influenced by experimental or passive training activities on Fort Stewart compared with undisturbed groups. This information will be presented in detail in the final report. We recorded over 8,000 hours of RCW nest behavior at 36 RCW groups over the study years 1998 to 2000. Eleven of these video sites received experimental testing during this study, while 13 received passive noise. An additional 12 were considered control groups and will be used to develop baseline behavioral trends from which passive and experimental groups will be compared. We did not observe any nest abandonment relative to camera use. Birds were observed using camera trees for foraging and perch sites when coming and going from the nest tree.

Distance and Sound Thresholds

Despite the aggressive nature of our testing regime (i.e., close proximity and repeated exposure), RCW behavioral responses were minimal when experimental stimuli were > 122 m away. We did not observe RCWs flushing from the nest when experimental noise stimuli were > 152 m away. Due to the variation in noise level and frequency spectra for other noise sources on Fort Stewart, passive noise event distances and sound thresholds were addressed on a case-by-case basis. Due to the varied nature and location of maneuver training activities on Fort Stewart, it is highly unlikely that woodpeckers would receive as much disturbance activity during the nesting season within any year as the experimentally disturbed RCW groups received during this year's study.

An examination of the data presented in Appendix B reveal a wide range of received noise levels at a given distance. One reason is that different types of noise sources have different acoustic source energy. Another reason is that certain noise sources can vary in the number of noise events that occur within a specific period of time (i.e., one round from a .50-caliber machine gun versus a 10 round burst). Variation in the frequency and timing of a noise source can greatly change its total emissive power. Noise sources can also vary depending on how they were manufactured. We observed differences in the emissive power of artil-

lery simulator (at similar distances) during experimental testing that appeared to be due to the amount of explosive powder in the simulator.

For a given noise source, received noise level also depends on differences in propagation conditions, a result of differences in atmospheric wind and temperature structure. It is well known that at distances of several kilometers, received noise level can vary by as much as 20 dB above and below the mean due to changes in meteorological conditions (Embleton 1982; Li et al. 1994; Larsson and Israelsson 1991; Pater 1981; Piercy et al. 1977; White and Gilbert 1989; White et al. 1993). Differences in received noise level can also be due to orientation of the weapon relative to the receiver. Many weapons exhibit substantial directivity; some as much as 15 dB louder downrange (Pater 1981; Pater et al. (Draft); Schomer et al. 1976a and 1976b [Vol I and II]; Schomer et al. 1979; Schomer et al. 1981; Schomer 1982; Schomer 1984; Schomer and Goebel 1985; Schomer 1986a, 1986b; Walther 1972). Some other important factors that should be taken into account are the orientation of the nest cavity relative to the noise source and any barriers between the noise source and the bird's position.

Noise Measurement Test

Noise levels within RCW nest cavities were substantially louder than noise levels recorded at the base of the nest tree due to a possible Helmholtz resonating effect. Due to differences in cavity and weapon orientation, presence or absence of barriers, and weapon directivity, we were not always able to extrapolate noise levels recorded at the base of the tree to received levels within RCW nest cavities. Noise measurements were therefore taken inside each nest cavity before or after the nesting season for each noise source to determine the noise levels that birds may actually be experiencing. Data comparing natural and artificial cavities are currently being analyzed to determine if there is a variation in the resonant frequency of the nest trees and if there are any differences in the noise level or duration of the noise event from comparably distant stimulus events. These data will also be presented in the final report.

6 Plans and Conclusions

Plans

The three years of data collected on RCW response to military training activities are being analyzed and will be presented in a final report that will be submitted to SERDP by December 2001. In this report we will detail a dose-response threshold relationship for RCWs relative to all military noise sources tested. We will also present direct observational data and video data from baseline, passive, and experimental RCW nesting behavior. Nesting data from undisturbed groups will be used to develop baseline life history patterns. Passive and experimental groups will then be compared with baseline behavioral patterns to determine the effects of military activity on RCW nesting behavior. We will also report our findings on cavity resonance and its effect on the perceived noise level by RCWs. The investigation of woodpecker hearing has provided useful results and will be incorporated into our results to develop a woodpecker weighting curve for which all noise sources will be examined.

One aspect of the technical approach that has not yet been executed is to use available noise models and training activity data to calculate noise dose for each RCW group, and to examine these data for correlation with nesting success data. Fort Stewart installed the updated version of the Range Facility Management Support System (RFMSS) in early 1998. This system included detailed data regarding training activity. These data will also be examined and presented in the final report.

Conclusions

During this third year of study of the impacts of training noise on the RCW, we observed and documented experimental training noise events and the resulting RCW responses under realistic conditions. Both proximate response behavior and nesting success were measured. We also observed RCW behavior and nesting success for groups where noise stimuli were absent or minimal (near or below ambient sound levels), to provide an undisturbed behavior baseline to judge response and impact against. No significant differences in nesting success or pro-

ductivity were found between experimentally disturbed and relatively undisturbed RCW groups.

References

Anderson, D.E., O.J. Rongstad, and W.R. Mytton. 1989. "Response of nesting red-tailed hawks to helicopter flights." *Condor* 91:296-299.

ANSI, American National Standards Institute S1.1-1994, "American National Standard: Acoustical Terminology," 1994.

ANSI, American National Standards Institute S1.4-1983, "American National Standard Specification for Sound Level Meters," 1983.

ANSI, American National Standards Institute S12.17-1996, "Impulse Sound Propagation for Environmental Noise Assessment," August 1996.

ANSI, American National Standards Institute S12.40-1990, "Sound Level Descriptors for Determination of Compatible Land Use," 1990.

ANSI, American National Standards Institute S12.4-1986, "American National Standard Method for Assessment of High-Energy Impulsive Sounds with Respect to Residential Communities," 1986.

ANSI, American National Standards Institute S12.9-1996, "Quantities and Procedures for Description and Measurement of Environmental Sound – Part 4: Noise Assessment and Prediction of Long-term Community Response," September 1996.

Awbrey, F.T., and A.E. Bowles. 1990. *The effects of aircraft noise and sonic booms on raptors: a preliminary model and a synthesis of the literature on disturbance.* Noise and Sonic Boom Impact Technology, Technical Operating Report 12. Wright-Patterson Air Force Base (AFB), OH.

Beaty, T.A. 1986. *Response of Red-cockaded Woodpeckers to habitat alteration.* Directorate of Engineering and Housing, Fish and Wildlife Section, Fort Stewart, GA.

Borenstein, M., H. Rothstein, and J. Cohen. 1997. SamplePower 1.0. SPSS, Chicago, IL.

Bowles, A.E. 1995. "Responses of wildlife to noise." Pages 109-156 in R.L. Knight and K.J. Gutzwiller, editors. *Wildlife Recreationists*, Island Press, Washington, DC.

Bowles, A.E., F.T. Awbrey, and R. Kull. 1990. "A model for the effects of aircraft overflight noise on the reproductive success of raptorial birds." Noise and Sonic Boom Impact Technology, Inter-Noise 90. Wright-Patterson AFB, OH.

Buchta, E. 1990. "A field survey of annoyance caused by sounds from small firearms," *J. Acoust. Soc. Am.*, 88, 1459-1467.

Carrier, W.D., and W.E. Melquist. 1976. "The use of a rotor-winged aircraft in conducting nesting surveys of ospreys in northern Idaho." *J. Raptor Res.* 10:77-83.

Charbonneau, D., L. Swindell, E.J. Moore, T.A. Beaty, and A. Eaton. 1983. "Preliminary report of the effects of forage habitat reduction on Red-cockaded Woodpecker reproduction in the CALFAX Range Facility at Ft. Stewart, Georgia." Directorate of Engineering and Housing, Fish and Wildlife Section, Fort Stewart, GA.

Costa, R. 1992. "Challenges for recovery," pp 37-44 in *Proceedings from Sandhills Red-cockaded Woodpecker conference*. D.J. Case and Assoc., Mishawaka, Inc.

Craig, T.H., and E.H. Craig. 1984. "Results of a helicopter survey of cliff nesting raptors in a deep canyon in southern Idaho." *Journal of Raptor Research* 18:20-25.

Delaney, D.K., T.G. Grubb, and D.K. Garcelon. 1998. "An infrared video camera system for monitoring diurnal and nocturnal raptors." *J. Raptor. Res.* 33:290-296

Delaney, D.K., T.G. Grubb, P. Beier, L.L. Pater, and M.H. Reiser. 1999. "Effects of helicopter noise on Mexican Spotted Owls." *Journal of Wildlife Management* 63:60-76.

Delaney, David K., Larry L. Pater, Timothy J. Hayden, Linton Swindell, Tim Beaty, Larry Carlile, and Eric Spadgenske. 2000. *Assessment of training noise impacts on the Red-cockaded Woodpecker: 1999 Results*. ERDC/CERL Technical Report (TR) 00-13, ADA379281, May 2000.

Devlin, W.J., J.A. Mosher, and G.J. Taylor. 1980. "History and present status of the Red-cockaded Woodpecker in Maryland." *Am. Birds* 34:314-316.

Edwards, R.G., A.B. Broderson, R.W. Barbour, D.F. McCoy, and C.W. Johnson. 1979. *Assessment of the environmental compatibility of differing helicopter noise certification standards*. Final Report for the Department of Transportation, WA. Report #FAA-AEE-19-13. Contract #78419000000000.

Ellis, D.H. 1981. *Responses of raptorial birds to low level military jets and sonic booms: Results of the 1980-81 Joint U.S. Air Force-U.S. Fish and Wildlife Service Study*. Institute for Raptor Studies Report NTIS ADA108-778.

Ellis, D.H., C.H. Ellis, and D.P. Mindell. 1991. "Raptor responses to low-level jet aircraft and sonic booms." *Environmental Pollution* 74:53-83.

Embleton, T. 1982. "Sound Propagation Outdoors – Improved Prediction Schemes for the 80's," *Noise Control Engineering Journal*, 18/1, 30-39.

Environmental Protection Agency (EPA). 1974. *Information on Levels of Environmental Noise Requisite to Protect Health and Welfare with an Adequate Margin of Safety*, U.S. Environmental Protection Agency, Report No. 550/9-74-004, March 1974.

EPA. 1982. *Guidelines for Noise Impact Analysis*, U.S. Environmental Protection Agency, Report No. 550/9-891-105, April 1982.

FICUN. 1980. Federal Interagency Committee on Urban Noise, *Guidelines for Considering Noise in Land Use Planning and Control*.

Fidell, S. et al. 1991 "Revision of a Dosage Effect Relationship for the Prevalence of Annoyance Due to General Transportation Noise," *J. Acoust. Soc. Am.*, 89, 221-233.

Fort Stewart Endangered Species Management Planning Team. 1998. *Endangered Species Management Plan.* 116 pages.

Fraser, J.D., L.D. Frenzel, and J.E. Mathisen. 1985. "The impact of human activities on breeding bald eagles in north-central Minnesota." *Journal of Wildlife Management* 49:585-592.

Fyfe, R.W., and R.R. Olendorff. 1976. "Minimizing the dangers of studies to raptors and other sensitive species." Canadian Wildlife Service Occasional Paper 23.

Grubb, T.G. and R.M. King. 1991. "Assessing human disturbance of breeding bald eagles with classification tree models." *Journal of Wildlife Management* 55:501-512.

Grubb, T.G., and W.W. Bowerman. 1997. "Variations in breeding bald eagle response to jets, light planes, and helicopters." *Journal of Raptor Research* 31:213-222.

Hart, B.L. 1985. *The behavior of domestic animals.* W.H. Freeman, New York, New York, USA.

Hayden, T.J. 1997. *Biological assessment of the effects of the proposed revision of the 1994 management guidelines for the Red-cockaded Woodpecker on Army installations.* Special Report (SR) 97/48, ADA322086 (U.S. Army Construction Engineering Research Laboratory [CERL] January 1997).

Hede and Bullen. 1982. "Community reaction to noise from a suburban rifle range," *Journal of Sound and Vibration*, 82, 39-49.

Hoffman, R., A. Rosenheck, and U. Guggenbuehl. 1985. *Assessment Procedure for Rifle Firing Noise from 300 Meter Facilities*, EMPA Department for Acoustics and Noise Abatement, Swiss Federal Office for Environmental Protection, February 1985.

Hohman, W.L. 1986. "Incubation rhythms of Ring-necked Ducks." *Condor* 88:290-296.

Holland, E.D. 1991. "The environment can ground training." *Naval Proceedings*, October 1991: 71-75.

Holthuijzen, A.M.A., W.G. Eastland, A.R. Ansell, M.N. Kochert, R.D. Williams, and L.S. Young. 1990. "Effects of blasting on behavior and productivity of nesting prairie falcons." *Wildlife Society Bulletin* 18:270-281.

Homans, B. 1974. *User Manual for the Acquisition and Evaluation of Operational Blast Noise Data*, CERL TR E-42, AD782911, June 1974.

Jackson, J.A. 1970. *Predation of a black rat snake on yellow-shafted flicker nestlings.* Wilson Bulletin 82:329-330.

Jackson, J.A. 1978. "Analysis of the distribution and population status of the Red-cockaded Woodpecker," pp 101-111 in R.R. Odum and L. Landers, eds. *Proceedings of the rare and endangered wildlife symposium.* Georgia Dep. Nat. Res., Game Fish Div., Tech Bull., WL 4.

Jackson, J.A. 1983. "Possible effects of excessive noise on post-fledging Red-cockaded Woodpeckers," pp 38-40 in D.A. Wood, ed. *Red-cockaded Woodpecker symposium II proceedings*, Florida Game Fresh Water Fish Commission, Tallahassee, FL.

Jackson, J.A. 1987. "The Red-cockaded Woodpecker," pp 479-493 in R.L. DiSilvestro, ed. Audubon wildlife report 1987, Academic Press, New York.

Jackson, J.A. 1994. "Red-cockaded woodpecker (Picoides borealis)," pp 1-19 in A. Poole and F. Gill, eds. *The Birds of North America*, No. 85. The Academy of Natural Sciences, Washington, DC, The American Ornithologists Union.

Jackson, J.A., and S.D. Parris. 1995. "The ecology of Red-cockaded Woodpeckers associated with construction and use of a multi-purpose range complex at Ft. Polk, Louisiana," pp 277-282 in D.L. Kulhavy, R.G. Hooper, and R. Costa, eds. *Red cockaded Woodpecker: recovery, ecology, and management.* Center for Applied Studies in Forestry, College of Forestry, Stephen F. Austin State University, Nacogdoches, TX.

Jordan, R.A., K.S. Wheaton, and W.M. Weiher. 1995. *Integrated endangered species management recommendations for Army Installations in the Southeastern United States: Assessment of the potential effects of Army-wide management guidelines for the Red-cockaded Woodpecker on associated endangered, threatened, and candidate species.* Final Report, The Nature Conservancy Southeast Regional Office, North Carolina.

Jordan, R.A., K.S. Wheaton, W.M. Weiher, and T.J. Hayden. 1997. "Integrated endangered species management recommendations for Army Installations in the Southeastern United States." CERL SR 97/94, ADA286931, June 1997.

Kappes, J.J. Jr., and L.D. Harris. 1997. "Defining cavity-associated interactions between red-cockaded woodpeckers and other cavity-dependant species: interspecific competition or cavity kleptoparasitism?" *Auk* 114:778-780.

Knight, R.L., and S.A. Temple. 1986. "Why does intensity of avian nest defense increase during the nesting cycle?" *Auk* 103:318-327.

Larsson, C., and S. Israelsson. 1991. "Effects of Meteorological Conditions and Source Height on Sound Propagation near the Ground," *Applied Acoustics* 33 (1991), 109-121.

Lawrence, G.N. 1867. "Catalogue of birds observed in New York, Long and Staten Islands and the adjacent parts of New Jersey," Annual Lyceum of the Natural History of New York 8:279-300.

Lennartz, M.R., P.H. Geissler, R.F. Harlow, R.C. Long, K.M. Chitwood, and J.A. Jackson. 1983. "Status of the Red-cockaded Woodpecker on federal lands in the south," pp 7-12 in D.A. Wood, ed. *Red-cockaded Woodpecker symposium II Proceedings.* Florida Game Fresh Water Fish Commission, Tallahassee, FL.

Li, Y.L., M.J. White, and S.J. Franke. 1994. "New fast field programs for anisotropic sound propagation through a wind velocity profile," *J. Acoust. Soc. Am.* 95, 718-726, February 1994.

Luz, G. 1982. "An improved procedure for evaluating the annoyance of small arms ranges," *J. Acoust. Soc. Am.*, 72, Suppl. 1, S26.

Manci, K.M., D.N. Gladwin, R. Villella, and M.G. Cavendish. 1988. "Effects of aircraft noise and sonic booms on domestic animals and wildlife: a literature synthesis." U.S. Fish and Wildlife Service Technical Report NERC 88.

McGarigal, K., R.G. Anthony, and F.B. Isaacs. 1991. "Interactions of humans and bald eagles on the Columbia River estuary." *Wildlife Monograph* 115:1-47.

NAS, National Academy of Sciences. 1977. Committee on Hearing, Bioacoustics, and Biomechanics, Working Group 69 Report, *Guidelines for Preparing Environmental Impact Statements on Noise.*

NAS, National Academy of Sciences. 1981. Committee on Hearing, Bioacoustics, and Biomechanics, Working Group 84 Report, *Assessment of Community Response to High-Energy Impulsive Sounds.*

Pater, L.L. 1981. *Gun Blast Far Field Overpressure Contours*, Naval Surface Weapons Center TR-79-442, March 1981.

Pater, L.L., W. Alvendia, R. Yousefi, and J. Wilcoski. Draft. *Acoustic Spectral Emissions Data for Several Small Weapons.* CERL Draft Technical Report.

Pater, L.L., D.K. Delaney, and T.J. Hayden. 1999. *Assessment of training noise impacts on the Red-cockaded Woodpecker: Preliminary results.* CERL Technical Report (TR) 99/51, ADA367234, June 1999.

Piercy, J.E., T. Embleton, and L. Sutherland. 1977. "Review of Noise Propagation in the Atmosphere," *J. Acoust. Soc. Am.*, 61, 1403-1418, June 1977.

Platt, J.B. 1977. "The breeding behavior of wild and captive gyrfalcons in relation to their environment and human disturbance." Ph.D. dissertation. Cornell University, Ithaca, NY.

Rice, C. 1983. "CEC Joint Research on Annoyance due to Impulse Noise: Laboratory Studies," Noise as a Public Health Problem: *Proceedings of the Fourth International Congress*, Volume 2, G. Rossi, Editor, Cetnro Ricerche E Studi Amplifon, Milan, Italy, pp 1073-1084.

Rice, C., I. Flindell, and J. John. 1986. "Annoyance due to Impulse Noise: Laboratory Studies, Final Report, CEC Third Programme, Phase 2, 1984-85," Contract Report 86/13, Institute of Sound and Vibration Research, University of Southampton, July 1986.

Schomer, P. 1994. "New Descriptor for High-Energy Impulsive Sounds," *Noise Control Eng. J.* 42(5), 179-191.

Schomer, P.D. 1982. *Acoustic Directivity Patterns for Army Weapons: Supplement 1*, CERL Technical Report (TR) N-60, ADA121665, September 1982.

Schomer, P.D. 1984. *Acoustic Directivity Patterns for Army Weapons: Supplement 2*, CERL Technical Report (TR) N-60, ADA145643, August 1984.

Schomer, P.D. 1986a. *Acoustic Directivity Patterns for Army Weapons: Supplement 4: The Multiple Launch Rocket System*, CERL Technical Report (TR) N-60, ADA166490, February 1986.

Schomer, P.D. 1986b. "High-energy Impulsive Noise Assessment," *J. Acoust. Soc. Am.*, 79(1), 182-186, January 1986b.

Schomer, P.D., and S.S. Goebel. 1985. *Acoustic Directivity Patterns for Army Weapons: Supplement 3: The Bradley Fighting Vehicle*, CERL Technical Report (TR N-60, ADA155219, April 1985.

Schomer, P.D., D. Effland, V. Pawlowska, and S. Roubik. 1981. *Blast Noise Prediction Volume 1: Data Bases and Computational Procedures*, CERL Technical Report (TR) N-98, ADA099440, March 1981.

Schomer, P.D., L. Wagner, L. Benson, E. Buchta, K.-W. Hirsch, and D. Krahe. 1994. "Human and community response to military sounds: Results from field-laboratory tests of small-arms, tracked-vehicle, and blast sounds," *Noise Control Engineering Journal*, Vol 42, 71-84.

Schomer, P.D., L.M. Little, and A.B. Hunt. 1979. *Acoustic Directivity Patterns for Army Weapons*, CERL Technical Report (TR) N-60, ADA066223, January 1979.

Schomer, P.D., R.J. Goff, and L.M. Little. 1976a. *The Statistics of Amplitude and Spectrum of Blasts Propagated in the Atmosphere - Vol. I*, CERL Technical Report (TR) N-13, ADA033475, November 1976.

Schomer, P.D., R.J. Goff, and L.M. Little. 1976b. *The Statistics of Amplitude and Spectrum of Blasts Propagated in the Atmosphere - Vol. II: Appendices C through E*, CERL Technical Report (TR) N-13, ADA033361, November 1976.

Schultz, T.J. 1978. "Synthesis of Social Surveys on Noise Annoyance," *J. Acoust. Soc. Am.*, 64, 377-405.

Scott, J.M., S.A. Temple, D.L. Harlow, and M.L. Shaffer. 1994. "Restoration and management of endangered species," pp 531-539 in T.A. Bookhout, ed. *Research and management techniques for wildlife and habitats*. Fifth ed. The Wildlife Society, Bethesda, MD.

Snyder, N.F.R., H.W. Kale II, and P.W. Sykes, Jr. 1978. *An evaluation of some potential impacts of the proposed Dade County training jetport on the endangered Everglade Kite*. FWS, Patuxent Wildl. Res. Cent., MD.

Sorenson and Magnusson. 1979. "Annoyance caused by noise from shooting range," *Journal of Sound and Vibration*, 62, 437-442.

SPSS, Inc. 1998. SPSS 8.0 for Windows: base, professional statistics, and advanced statistics. SPSS, Inc., Chicago, IL.

Stalmaster, M.V., and J.L. Kaiser. 1997. "Flushing responses of wintering bald eagles to military activity." *Journal of Wildlife Management* 61:1307-1313.

Steenhof, K., and M.N. Kochert. 1982. "An evaluation of methods used to estimate raptor nesting success." *Journal of Wildlife Management* 46:885-893.

The Nature Conservancy (TNC). 1996. *Effects of military training on the Red-cockaded Woodpecker*. Final Report for Fort Benning Army Installation.

Thiessen, G. 1957. "Acoustic irritation threshold of ring-billed gulls." *Journal of Acoustical Society of America* 29:1307-1309.

U.S. Code of Federal Regulations. 1980. Title 14, Part 150. "Airport Noise Compatibility Planning."

U.S. Fish and Wildlife Service. 2000. Technicial/agency draft revised recovery plan for the red-cockaded woodpecker (*Picoides borealis*). U.S. Fish and Wildlife Service, Atlanta, GA.

Vos, J. 1995. "A review of research on the annoyance caused by impulse sounds produced by small firearms," *Proceedings of INTER-NOISE 95: Vol 2*, Noise Control Foundation: New York, 875-878.

Walters, J.R., P.D. Doerr, and J.H. Carter, III. 1988. "The cooperative breeding system of the red-cockaded woodpecker." *Ethology* 78:275-305.

Walther, M.F. 1972. *Gun Blast from Naval Guns*, NWL Technical Report TR-2733, Naval Weapons Laboratory, August 1972.

White, C.M., and T.L. Thurow. 1985. "Reproduction of ferruginous hawks exposed to controlled disturbance. *Condor* 87:14-22.

White, M.J., and K.E. Gilbert. 1989. "Application of the parabolic equation to the outdoor propagation of sound," *Applied Acoustics* 27(3), 227-238.

White, M.J., C.R. Shaffer, and R. Raspet. 1993. *Measurements of Blast Noise Propagation over Water at Aberdeen Proving Ground, MD*, CERL Technical Report (TR) EAC-93/02, ADA280383, September 1993.

Windsor, J. 1977. *The response of Peregrine Falcons (Falco peregrinus) to aircraft and human disturbance*. Mackenzie Valley Pipeline Investigations, Report for Environmental Social Programs. Canadian Wildl. Serv.

Zar, J.H. 1984. *Biostatistical Analysis*. Prentice-Hall, Englewood Cliffs, New Jersey.

Appendix A: Significant Legal Requirements

The Endangered Species Act (ESA) requires Federal agencies to carry out programs for the conservation of threatened and endangered species. Agencies are further required to ensure that their actions do not jeopardize the continued existence of listed species or result in the destruction or adverse modification of the critical habitat of these species. These requirements fall under provisions of Section 7 of the Act, which also requires agencies to conduct biological assessments to evaluate the impacts of their activities on listed species. This assessment serves as the primary basis for coordination with the U.S. Fish and Wildlife Service which, in turn, issues a biological opinion and specific endangered species management recommendations. Implementation of these recommendations can place constraints on execution of the military mission. To avoid possible penalties resulting from findings of "take" due to harassment or harm resulting from exposure to military-related noise, a capability is needed to evaluate and monitor the impact of noise on both behavior and breeding success of affected species. Under the ESA it is the responsibility of the land owner, not of the U.S. Fish and Wildlife Service, to evaluate effects of land use activities on threatened and endangered species.

The ESA prohibits take of endangered species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct. Within the definition of take, the term "harm" has been subject to significant judicial scrutiny. "Harm" is clearly an act that actually kills or injures wildlife, but it may also include actions that significantly impair essential behavioral patterns, including breeding, feeding, or sheltering.

The National Environmental Policy Act (NEPA) requires Federal agencies to assess the impact of planned activities on the environment and to make the assessment available to the general public. The decision making procedures are documented by either an Environmental Assessment (EA) or an Environmental Impact Statement (EIS). Noise and threatened and endangered species are often important issues in these documents, particularly as reviewers place a stronger emphasis on cumulative effects of activities.

Appendix B: Summary Data Tables

Table B 1. Flush response of nesting Red-cockaded Woodpeckers versus the number, distance and noise levels of experimental artillery simulator testing on Fort Stewart, GA, 2000.

Stimulus Distance (m)	Cluster Tested	Number of Noise Events	Number of Data Sessions	Number of Flushes	Noise Levels, SEL (dB)			Typical Ambient LEQ (dB) "A" weighted
					Cavity level	unweighted	"A" weighted	
15.2	81,126,136	3	3	3	98-113	93-104	88-91	35-42
30.5	1,41,51,53,126,136,137,159,179 183,184,205,206,221,227,295	16	16	12	99-112	89-102	83-91	33-46
45.7	23,41,137,159,197,198,206,221	8	8	3	97-107	80-100	78-87	33-44
61.0	1,6,41,62,80,86,179,183,198,205,221,232	12	12	6	97-109	81-101	73-84	32-41
76.2	57,80	2	2	1	102-106	74-97	72-82	36-42
91.5	1,6,57,62,80,86,183,184,295	9	9	4	100-105	74-93	71-82	35-45
122.0	1,6,62,206,295	5	5	0	93-102	73-90	70-72	37-45
<122.0	26	55	55	29				
152.4	206	1	1	0	92	74	72	36
Totals	26	56	56	29				

Table B 2. Flush response of nesting Red-cockaded Woodpeckers versus the number, distance and noise levels of experimental .50-caliber blank fire testing on Fort Stewart, GA, 2000.

Stimulus Distance (m)	Cluster Tested	Number of Noise Events	Number of Data Sessions	Number of Flushes	Noise Levels, SEL (dB)			Typical Ambient LEQ (dB) "A" weighted
					Cavity level	unweighted	"A" weighted	
15.2	194	1	1	1	108-118	96-104	91-97	39
30.5	10,23,47,48,60,61,81,87,148,172,194	11	11	8	105-115	91-106	87-98	36-43
45.7	10,32,107,148,	4	4	2	103-114	88-101	80-95	38-48
61.0	12,23,48,60,61,75,81,88,107, 139,172,207,289	14	14	7	102-106	84-100	76-91	32-47
76.2	2,36,87	3	3	3	97-105	89-93	84-89	37-42
91.5	23,42,107,139,218,228,289	7	7	2	101-103	80-95	82-86	34-46
122.0	42,216,228	3	3	1	97-100	84-88	75-86	34-45
<122.0	25	43	43	24				
152.4	228	1	1	0	94-100	81-87	70-76	41
244.0	228	1	1	0	74	61	55	45
Totals	25	45	45	24				

Table B 3. Flush response of nesting Red-cockaded Woodpeckers versus the number, distance and noise levels of passive small-caliber fire on Fort Stewart, GA, 2000.

Stimulus Distance (m)	Cluster Tested	Number of Noise Events	Number of Data Sessions	Number of Flushes	Noise Levels, SEL (dB)		Typical Ambient LEQ (dB) "A" weighted
					Unweighted	"A" weighted	
200-300	103	182	3	0	76-96	75-97	42-45
400-600	51,103	644	4	0	58-77	53-75	41-45
1500-2500	23,83	126	2	0	64-72	45-64	45-48
4000-5000	36,48,71,267	160	4	0	62-76	42-60	40-45
Totals	8	1112	13	0			

Table B 4. Flush response of nesting Red-cockaded Woodpeckers versus the number, distance and noise levels of passive helicopter flights on Fort Stewart, GA, 2000. Stimulus distances represent the closest estimated approach distance by a helicopter.

Stimulus Distance (m)	Cluster Tested	Number of Noise Events	Number of Data Sessions	Number of Flushes	Noise Levels, SEL (dB)		Typical Ambient LEQ (dB) "A" weighted
					Unweighted	"A" weighted	
30-50	53,57,206	9	3	0	103-110	90-98	42-45
51-100	23,53,57,60,206	11	5	0	96-101	85-91	40-45
101-200	2,23,48,53,57,206,207,216	17	8	0	90-96	74-85	38-45
201-300	2,48,53,60,206	15	5	0	87-90	63-79	42-44
301-400	53,206	4	2	0	84-85	64-74	42-44
Totals	9	56	23	0			

Table B 5. Flush response of nesting Red-cockaded Woodpeckers versus the number, distance and noise level of passive large-caliber live fire on Fort Stewart, GA, 2000.

Stimulus Distance (m)	Cluster Tested	Number of Noise Events	Number of Data Sessions	Number of Flushes	Noise Levels, SEL (dB)		Typical Ambient LEQ (dB) "A" weighted
					unweighted	"A" weighted	
1000-3000	23,84,159,183,206,267	279	13	0	69-103	48-76	36-49
3001-5000	41,48,81,162	23	5	0	64-90	40-69	32-45
5001-7000	23,57	7	2	0	72-84	44-55	34-41
Totals	11	311	21	0			

Table B 6. Flush response of nesting Red-cockaded Woodpeckers versus the number, distance and noise levels of passive vehicles on Fort Stewart, GA, 2000.

Stimulus Distance (m)	Cluster Tested	Number of Noise Events	Number of Data Sessions	Number of Flushes	Noise Levels, SEL (dB)		Typical Ambient LEQ (dB) "A" weighted
					Unweighted	"A" weighted	
15-50	12,13,23,57,83,197,216	54	10	2	58-110	51-98	38-47
50-100	82,206	11	2	0	82-99	65-80	32-45
101-200	62,139	5	2	0	72-93	70-83	41-42
201-300	6	2	2	0	84-87	62-64	38-42
301-400	207	2	1	0	76-79	54-62	38
Totals	13	74	17	2			

Table B 7. Flush response of nesting Red-cockaded Woodpeckers versus the number, distance and noise levels of passive missiles on Fort Stewart, GA, 2000.

Stimulus Distance (m)	Cluster Tested	Number of Noise Events	Number of Data Sessions	Number of Flushes	Noise Levels, SEL (dB)		Typical Ambient LEQ (dB) "A" weighted
					Unweighted	"A" weighted	
750-1000	88	33	2	0	67-105	61-96	34
2000-4000	83	60	2	N/A	65-93	52-73	41
4001-6000	99	15	1	N/A	69-85	47-68	41
Totals	3	108	5	0			

Appendix C: Source Spectra Examples

.50 Caliber Blank Fire Blast
30 m from RCW Cavity
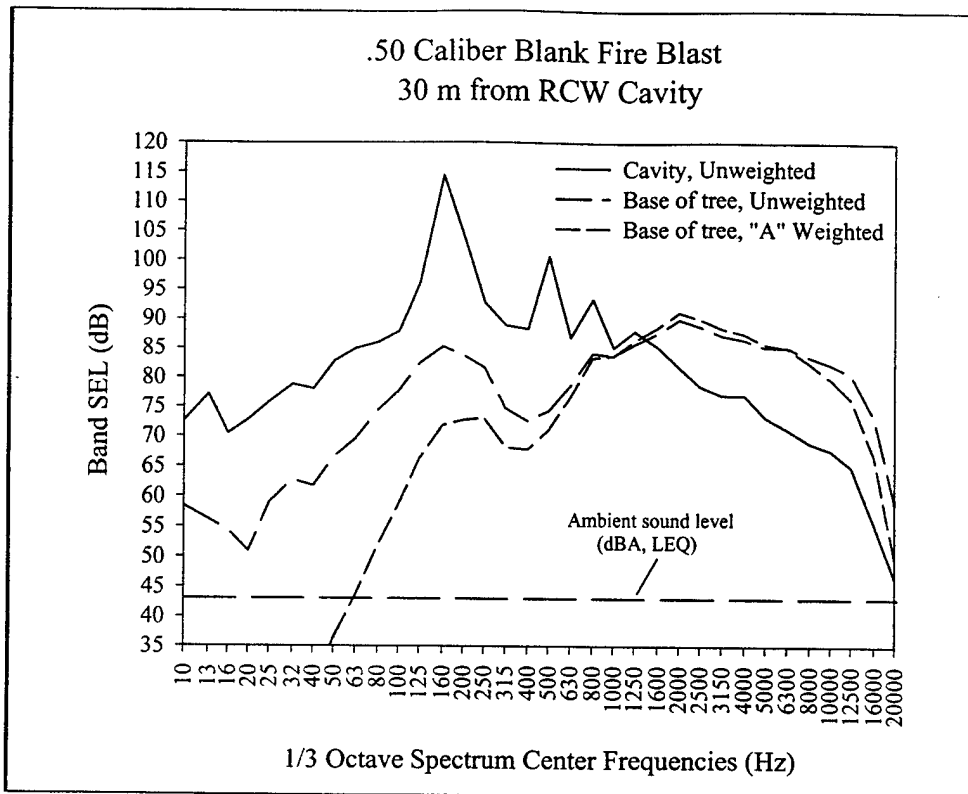
Figure C 1. SEL weighting comparison for experimental .50-caliber blank fire at cluster 47 on June 5, 2000.

Artillery Simulator at 30 m
from RCW Cavity
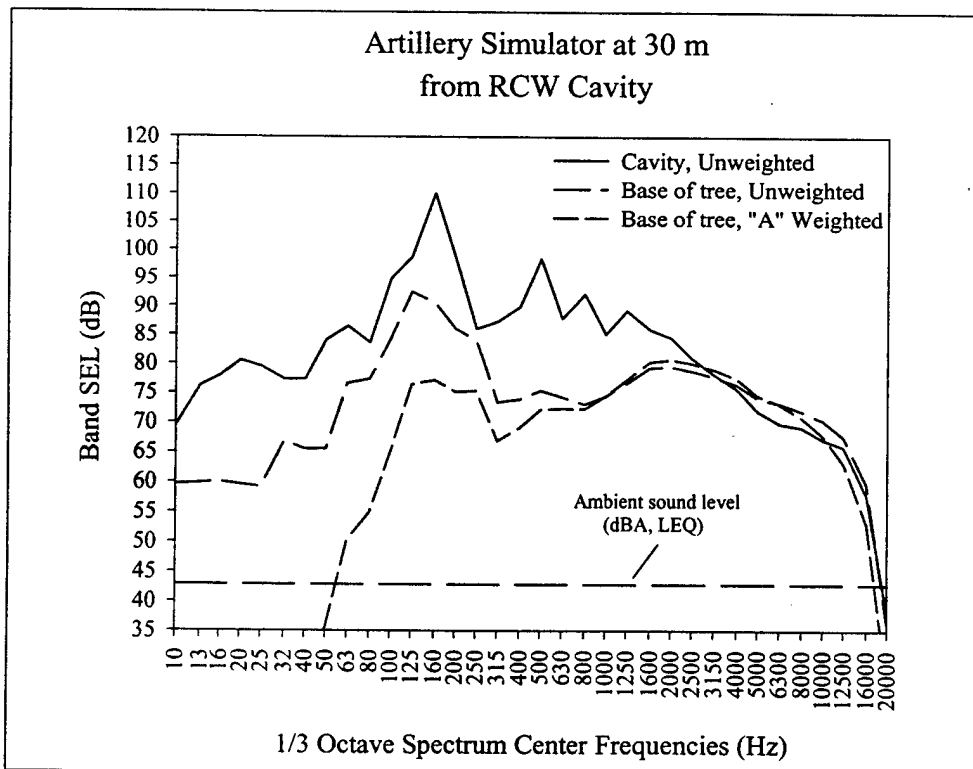
Figure C 2. SEL weighting comparison for experimental artillery simulator blast at cluster 47 on June 5, 2000.

Bradley Fighting Vehicle at 30 m from RCW Nest Cavity Tree

Base of tree, Unweighted
Base of tree, "A" Weighted

Band SEL (dB)

Ambient sound level (dBA, LEQ)

1/3 Octave Spectrum Center Frequencies (Hz)
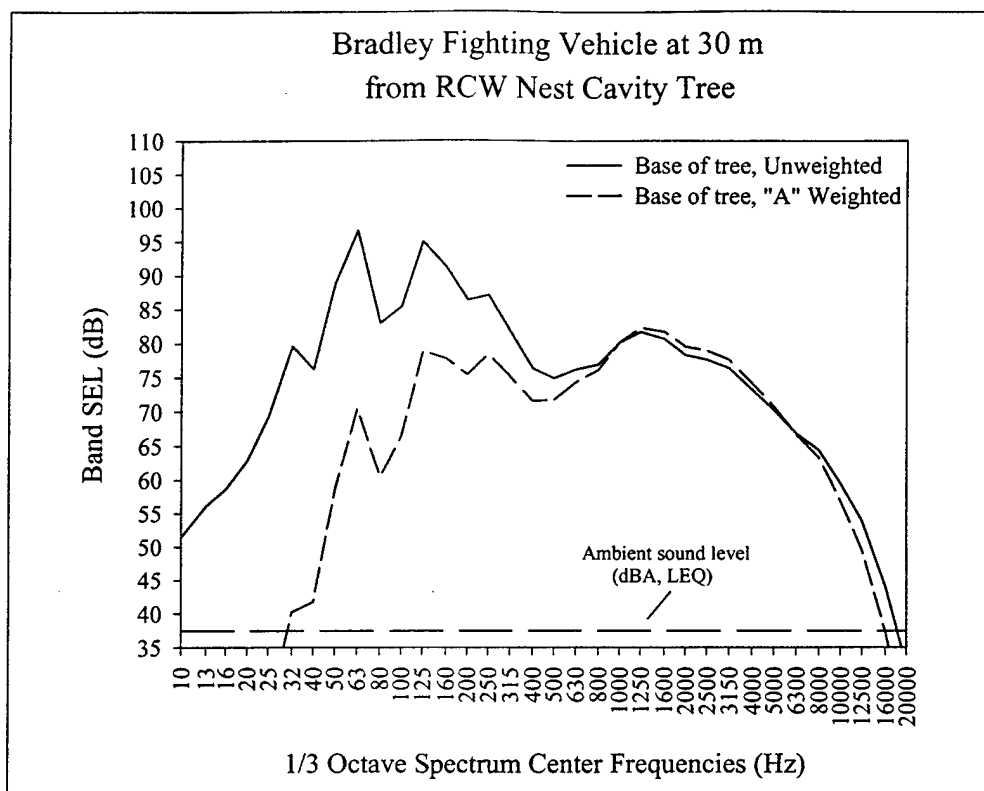
Figure C 3. SEL weighting comparison for a passive military vehicle noise event at cluster 216 on May 8, 2000. This event elicited a flush response by the attending adult.

Grenade Simulator at 30 m from RCW Cavity

Cavity, Unweighted
Base of tree, Unweighted
Base of tree, "A" Weighted

Band SEL (dB)

Ambient sound level (dBA, LEQ)

1/3 Octave Spectrum Center Frequencies (Hz)
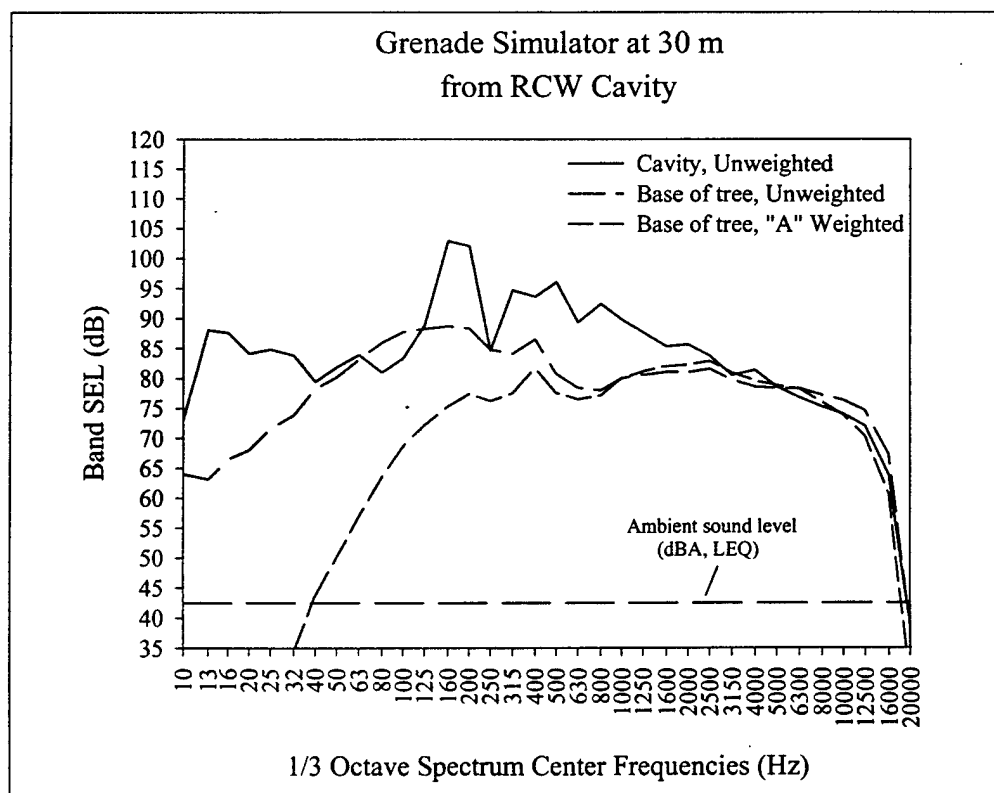
Figure C 4. SEL weighting comparison of a passive grenade simulator blast at cluster 221 on June 23, 2000.

Helicopter Flight at 30 m from RCW Nest Cavity Tree

Base of tree, Unweighted
Base of tree, "A" Weighted

Band SEL (dB)

Ambient sound level
(dBA, LEQ)

1/3 Octave Spectrum Center Frequencies (Hz)
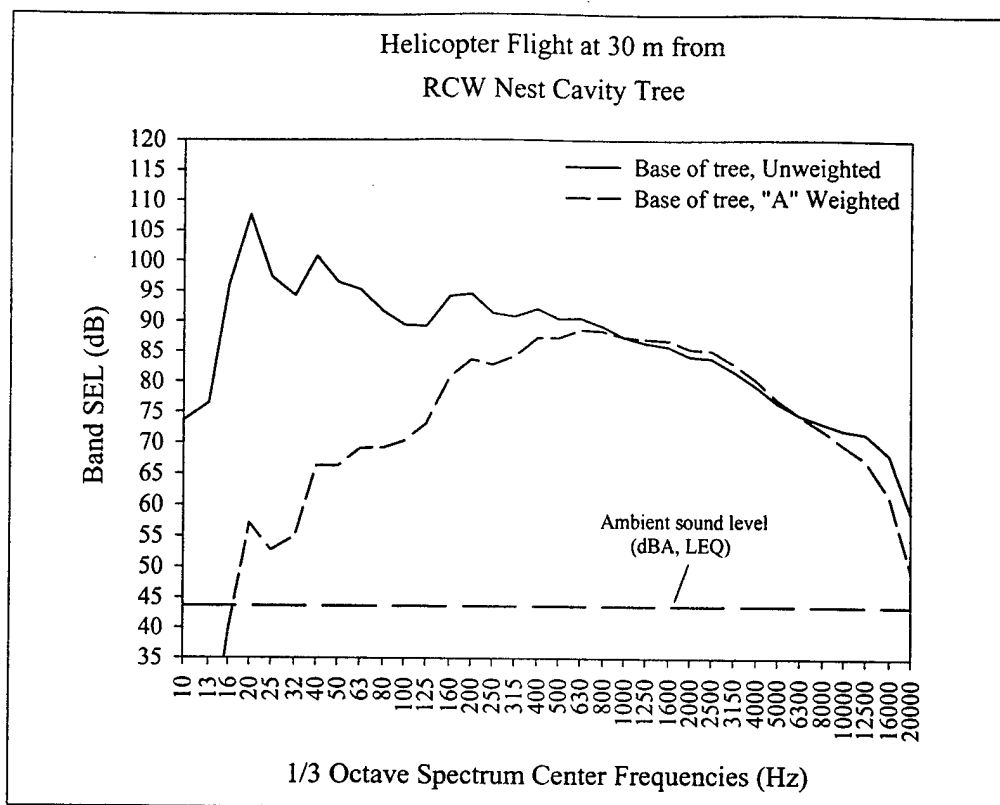
Figure C 5. SEL weighting comparison for a passive helicopter flight at cluster 206 on May 25, 2000.

Sonic Muzzle Blast from M-16 live fire at ~200 from RCW Nest Cavity Tree

Base of tree, Unweighted
Base of tree, "A" Weighted

Band SEL (dB)

Ambient sound level
(dBA, LEQ)

1/3 Octave Spectrum Center Frequencies (Hz)
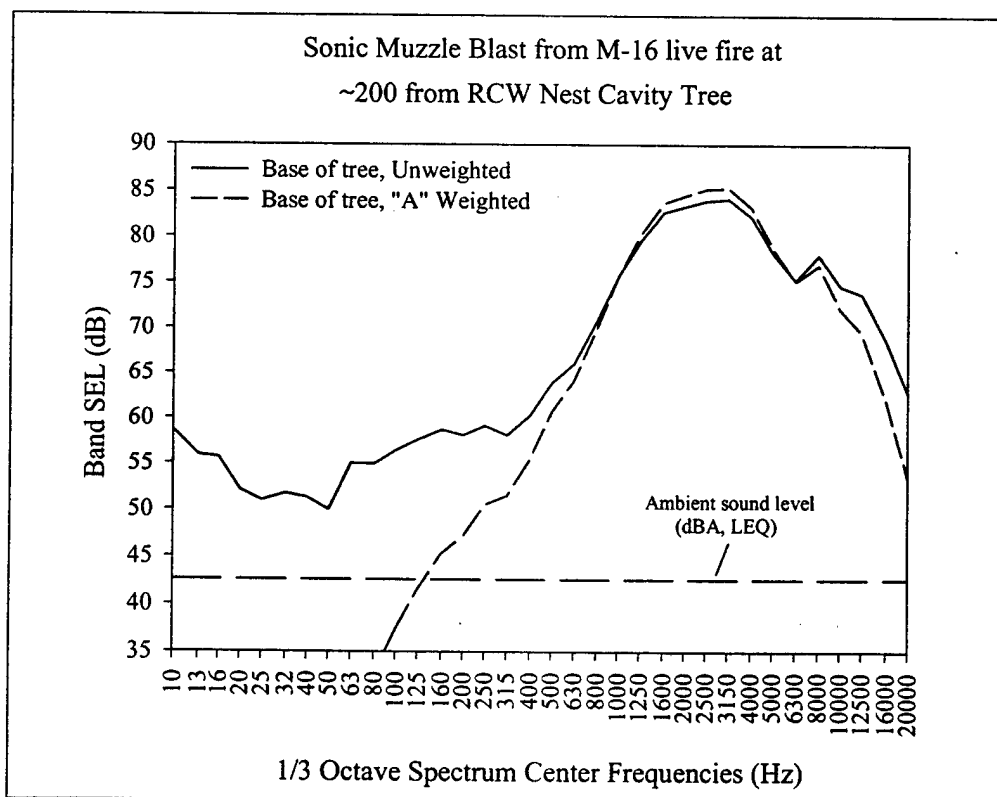
Figure C 6. SEL weighting comparison for passive M-16 live fire at cluster 103 on May 6, 2000.
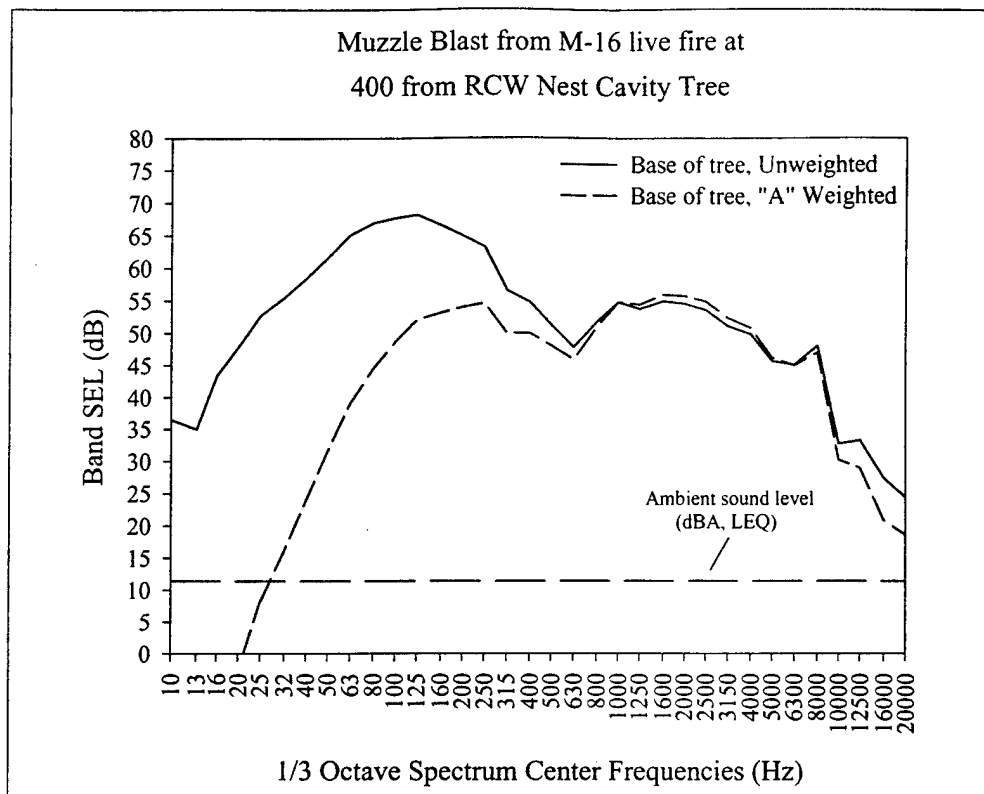
Figure C 7. SEL weighting comparison for passive M-16 live muzzle fire at cluster 103 on May 6, 2000.
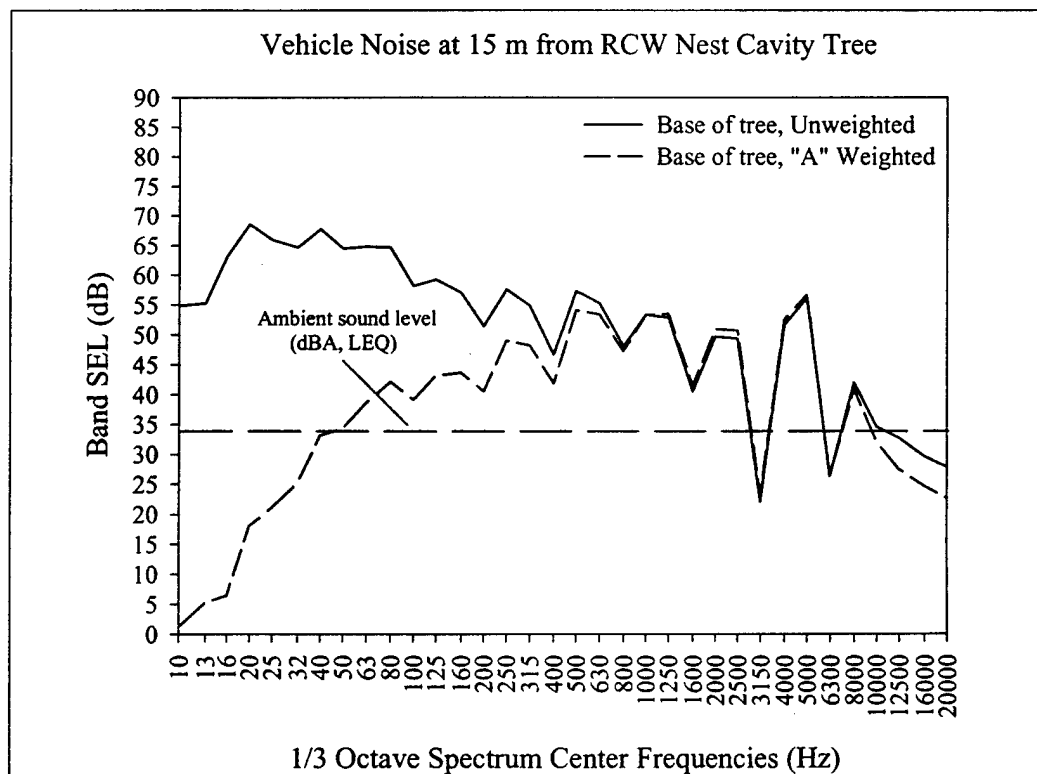
Figure C 8. SEL weighting comparison for passive vehicle noise at cluster 23 on May 16, 2000.
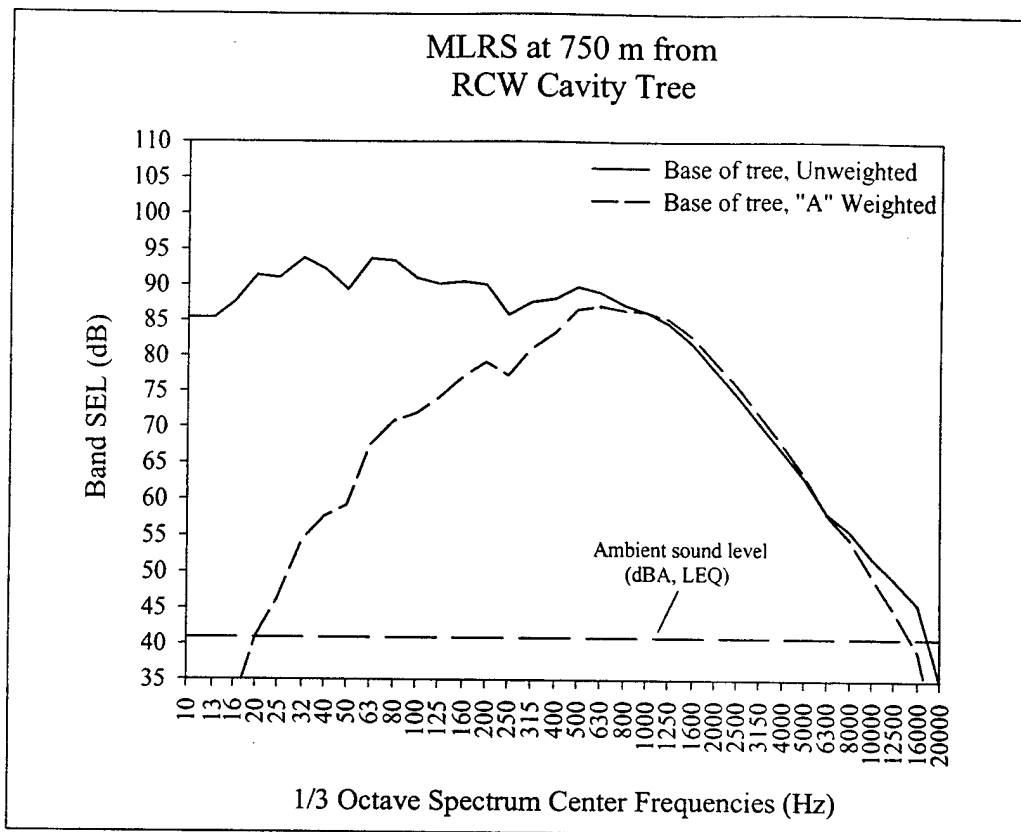
Figure C 9. SEL weighting comparison for passive MLRS fire at cluster 88 on April 13, 2000. MLRS firing occurred during the pre-nesting phase for the RCW.
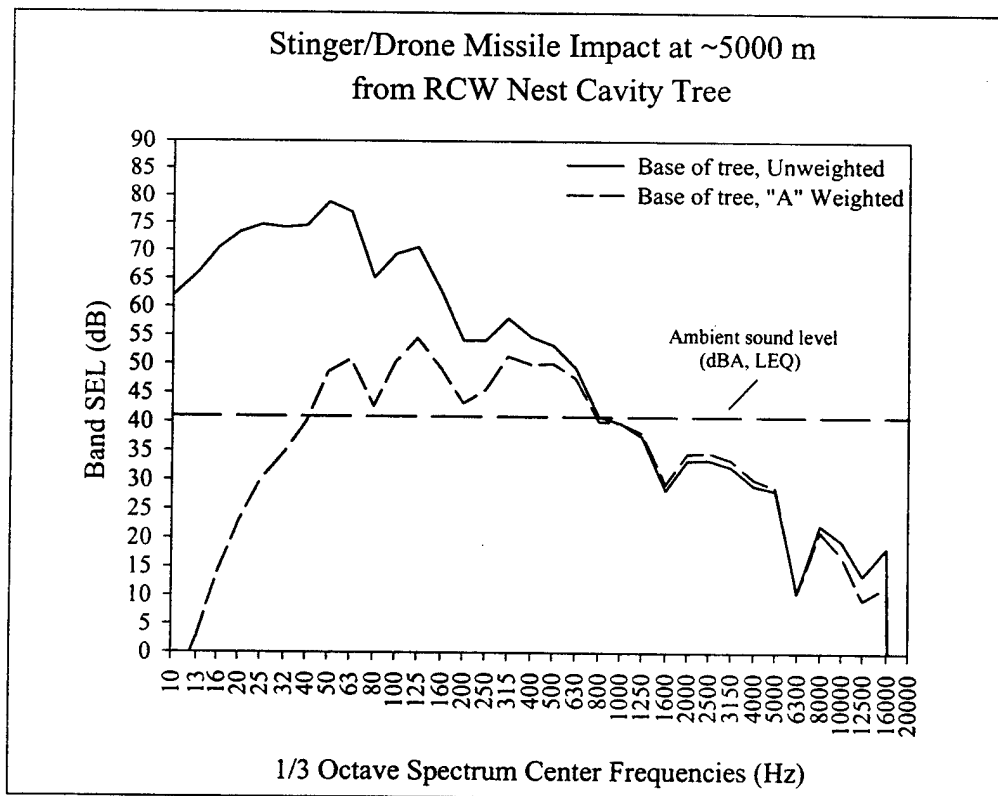
Figure C 10. SEL weighting comparison for passive Stinger/Drone Missile impact at cluster 83 on May 16, 2000.
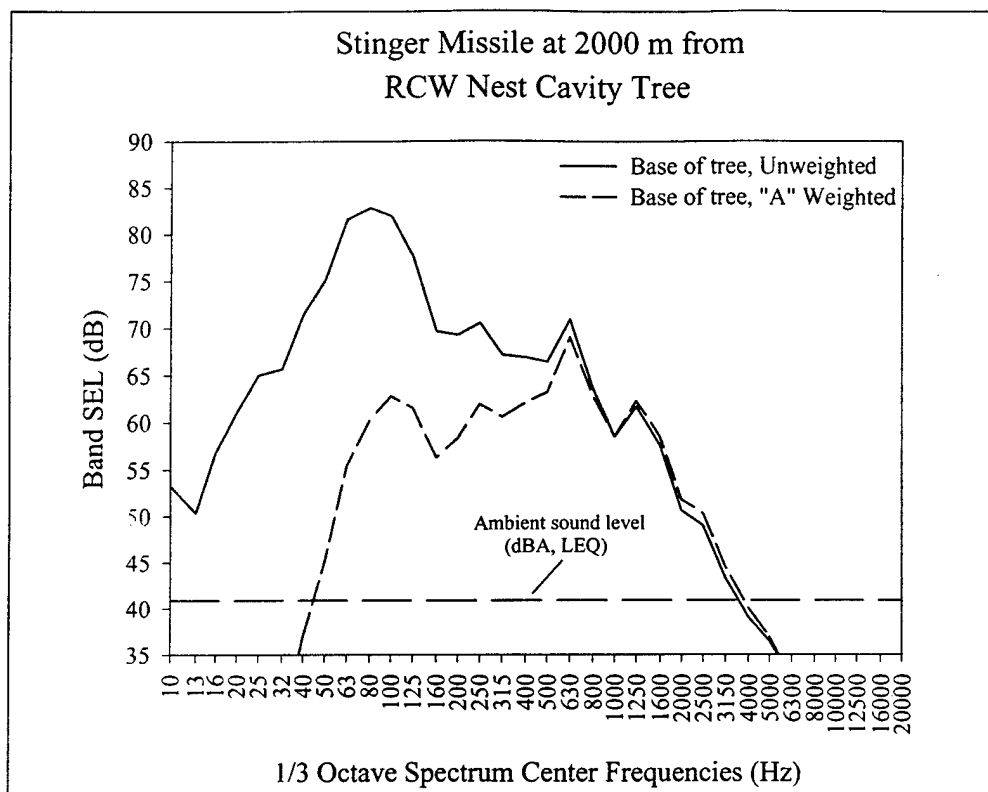
Figure C 11. SEL weighting comparison of passive Stinger Missile fire at cluster 83 on May 16, 2000.
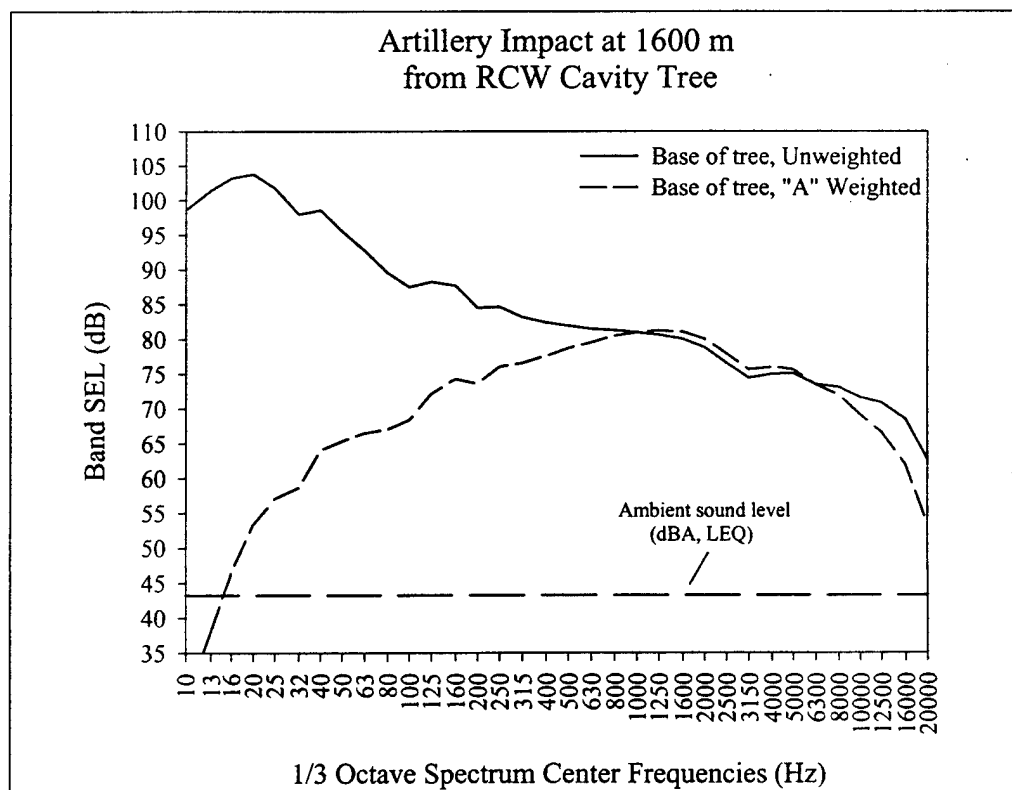
Figure C 12. SEL weighting comparison for passive artillery impact noise at cluster 39 on June 16, 2000.

Appendix D: Detailed Noise Event and RCW Response Data

Table. D 1. Summary data for experimental artillery simulator blast noise on Fort Stewart, GA, 2000. RCW response 0 = no visible response, 1 = alert to cavity mouth, and 2 = flush from cavity.

Cluster	Date	Nesting Phase and Day	Event Type	Event Dist. (m)	RCW Response	Recovery time (min)	Remarks	Mic Pos.	File #	Spec. #	SEL (dB) at mic Flat	A
1	03-May-00	I-5	Art Sim.	30	2	2		Base	T1181	6	99.9	87.2
1	19-May-00	I-4	Art Sim.	60	2	1.583		Base	T1465	6	81.3	80.3
1	23-May-00	I-8	Art. Sim	90	2	1.567		Base	T990	7	73.7	72.2
1	25-May-00	I-10	Art. Sim	120	1			Base	T1052	7	73.2	70.5
2	06-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1012	8	92.0	90.8
2	06-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1013	6	98.8	97.0
2	06-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1014	8	108.4	99.2
2	06-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1015	6	109.2	102.6
2	06-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1020	5	85.1	84.5
2	06-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1022	6	103.3	93.7
2	06-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1024	8	98.8	96.1
2	06-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1025	8	89.1	88.3
2	06-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1026	7	105.5	98.9
2	06-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1027	8	100.0	92.6
2	06-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1028	8	101.7	90.1
2	06-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1031	8	86.7	83.9
6	05-May-00	I-5	Art. Sim	60	2	3.717		Base	T873	5	100.7	82.6
6	05-May-00	I-5	Art. Sim	60	2	3.717		Base	T976	7	87.7	73.3
6	09-May-00	I-9	Art. Sim	120	0			Base	T585	11	83.9	70.4
6	09-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1616	3	90.4	87.2
6	09-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1617	4	103.1	91.8
6	09-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1619	7	98.4	85.5
6	09-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1622	7	80.3	75.6
6	09-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Base	T1625	5	76.3	72.9
6	09-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Cav	T1627	5	96.4	83.9
6	09-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1628	6	105.5	92.9
6	09-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1629	6	83.8	78.6
6	09-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1631	6	78.4	74.5
6	09-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1634	6	101.3	87.9
6	09-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Cav	T1636	7	97.9	84.2

6	09-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Base	T1638	7	73.2	68.7
12	09-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1640	2	91.4	88.3
12	09-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1641	3	104.8	93.6
12	09-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1642	7	97.7	82.4
12	09-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1644	7	78.7	74.6
12	09-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1647	6	77.6	75.2
12	09-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1650	6	101.2	86.4
23	30-May-00	I-2	Art. Sim	45	2	10.433		Base	T1053	8	86.3	82.0
32	22-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1753	3	101.4	94.4
32	22-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Cav	T1754	3	107.7	100.9
32	22-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Cav	T1755	3	110.5	100.2
32	22-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Base	T1757	3	99.0	90.1
36	12-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1928	3	91.8	76.4
36	12-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1930	3	96.6	82.4
36	12-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1936	3	93.9	74.6
36	12-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1938	3	93.6	76.4
36	12-Jun-00	Post-fledgling	Art. Sim	75			Extrapolation	Cav	T1939	3	96.2	82.0
36	12-Jun-00	Post-fledgling	Art. Sim	75			Extrapolation	Base	T1941	3	95.1	76.9
36	12-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1943	3	97.4	87.7
36	12-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1945	3	99.8	90.5
41	11-May-00	I-2	Art. Sim	30	2	1.35		Base	T1055	6	99.7	84.3
41	16-May-00	I-4	Art Sim.	60	1			Base	T1149	5	97.6	80.6
41	02-Jun-00	I-1	Art Sim.	45	1			Base	T1269	6	82.0	80.3
42	31-May-00	Post-fledgling	Art Sim.	90			Extrapolation	Cav	T1404	5	100.9	90.8
42	31-May-00	Post-fledgling	Art Sim.	90			Extrapolation	Base	T1405	5	82.0	80.9
42	31-May-00	Post-fledgling	Art Sim.	120			Extrapolation	Base	T1407	7	73.8	72.8
42	31-May-00	Post-fledgling	Art Sim.	120			Extrapolation	Cav	T1410	7	93.7	81.2
42	31-May-00	Post-fledgling	Art Sim.	90			Extrapolation	Base	T1412	7	76.6	72.6
42	31-May-00	Post-fledgling	Art Sim.	90			Extrapolation	Cav	T1413	7	95.3	73.9
42	31-May-00	Post-fledgling	Art Sim.	120			Extrapolation	Cav	T1415	7	90.7	70.9
42	31-May-00	Post-fledgling	Art Sim.	120			Extrapolation	Base	T1418	7	74.5	72.1
47	05-Jun-00	Post-fledgling	Art Sim.	15			Extrapolation: low powder blast	Base	T1270	7	97.5	94.5
47	05-Jun-00	Post-fledgling	Art Sim.	30			Extrapolation: low powder blast	Base	T1271	6	96.7	89.3
47	05-Jun-00	Post-fledgling	Art Sim.	45			Extrapolation: low powder blast	Base	T1272	6	86.8	86.0
47	05-Jun-00	Post-fledgling	Art Sim.	15			Extrapolation: low powder blast	Cav	T1273	7	105.9	96.3
47	05-Jun-00	Post-fledgling	Art Sim.	30			Extrapolation: low powder blast	Cav	T1274	7	111.3	101.3
47	05-Jun-00	Post-fledgling	Art Sim.	45			Extrapolation: low powder blast	Cav	T1275	6	106.5	94.8
47	05-Jun-00	Post-fledgling	Art Sim.	15			Extrapolation: low powder blast	Base	T1282	4	95.2	93.4
47	05-Jun-00	Post-fledgling	Art Sim.	30			Extrapolation: low powder blast	Base	T1283	5	91.5	88.4
47	05-Jun-00	Post-fledgling	Art Sim.	45			Extrapolation: low powder blast	Base	T1284	5	88.4	87.0

47	05-Jun-00	Post-fledgling	Art Sim.	15			Extrapolation: low powder blast	Cav	T1285	4	107.8	101.6
47	05-Jun-00	Post-fledgling	Art Sim.	30			Extrapolation: low powder blast	Cav	T1286	6	105.9	98.3
47	05-Jun-00	Post-fledgling	Art Sim.	45			Extrapolation: low powder blast	Cav	T1287	5	102.5	93.5
51	18-May-00	I-9	Art. Sim	30	2	2.383		Base	T840	10	100.4	84.9
51	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Cav	T1737	3	106.3	98.8
51	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1738	3	99.8	93.0
51	21-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Base	T1740	3	98.3	84.0
51	21-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Cav	T1742	3	105.9	95.3
51	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1745	3	99.9	93.3
51	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Cav	T1746	3	106.0	99.0
51	21-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Cav	T1748	3	109.2	99.5
51	21-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Base	T1750	3	99.0	90.1
53	17-May-00	I-5	Art. Sim	30	2	8.05		Base	T560	14	99.1	83.6
57	28-Apr-00	N-0	Art. Sim	75	2	0.733		Base	T680	4	96.5	82.3
57	31-May-00	Post-fledgling	Art. Sim.	60			Extrapolation	Base	T1380	7	88.2	83.1
57	31-May-00	Post-fledgling	Art. Sim.	75			Extrapolation	Base	T1381	7	78.0	76.2
57	31-May-00	Post-fledgling	Art. Sim.	60			Extrapolation	Cav	T1382	7	101.5	91.0
57	-31-May-00	Post-fledgling	Art. Sim.	75			Extrapolation	Cav	T1383	7	97.6	79.5
57	31-May-00	Post-fledgling	Art. Sim.	90			Extrapolation	Cav	T1386	8	95.0	83.6
57	31-May-00	Post-fledgling	Art. Sim.	90			Extrapolation	Base	T1389	8	76.9	74.4
57	31-May-00	Post-fledgling	Art. Sim.	60			Extrapolation	Base	T1390	7	81.1	78.2
57	31-May-00	Post-fledgling	Art. Sim.	75			Extrapolation	Base	T1391	7	77.0	74.4
57	31-May-00	Post-fledgling	Art. Sim.	60			Extrapolation	Cav	T1392	7	102.2	88.4
57	31-May-00	Post-fledgling	Art. Sim.	75			Extrapolation	Cav	T1393	7	103.3	88.9
57	31-May-00	Post-fledgling	Art. Sim.	90			Extrapolation	Cav	T1398	7	102.9	90.3
57	31-May-00	Post-fledgling	Art. Sim.	90			Extrapolation	Base	T1401	7	80.2	75.4
62	08-May-00	I-10	Art. Sim	120	1			Base	T983	8	73.4	72.3
62	11-May-00	N-2	Art. Sim	60	2	3.5		Base	T1061	7	86.0	84.2
62	15-May-00	N-6	Art. Sim	90			No birds	Base	T987	7	78.2	77.1
62	15-May-00	N-6	Art. Sim	90	1			Base	T988	7	74.7	74.2
62	08-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1582	6	84.4	80.8
62	08-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1583	7	108.0	99.4
62	08-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1585	7	107.6	97.6
62	08-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1588	7	82.8	80.0
62	08-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1592	7	81.6	79.3
62	08-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1593	7	99.2	88.8
62	08-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1595	7	97.7	85.7
62	08-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1598	7	78.5	74.6
62	08-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Base	T1600	3	74.1	72.2
62	08-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Cav	T1602	3	94.1	80.5

71	12-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1947	2	100.9	86.7
71	12-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1949	3	98.3	84.1
71	12-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1950	3	101.3	85.9
71	12-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1952	3	99.2	83.2
71	12-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1954	2	101.9	86.1
71	12-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1956	2	98.0	83.6
71	12-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1959	2	100.7	88.7
71	12-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1961	3	99.7	86.6
71	12-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1963	2	109.3	100.1
71	12-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1965	2	110.2	101.6
71	12-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1967	2	102.4	91.2
71	12-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1969	2	93.9	75.7
75	09-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1915	6	98.0	86.4
75	09-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1916	6	108.4	100.5
75	09-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1917	4	107.7	98.4
75	09-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1919	4	93.6	82.8
75	09-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1921	7	97.9	81.6
75	09-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1923	7	108.0	98.4
80	12-May-00	I-7	Art. Sim	60	2	3.683		Base	T1071	7	95.6	81.0
80	16-May-00	N-0	Art. Sim	90	1			Base	T594	5	85.2	82.2
80	19-May-00	N-3	Art Sim.	75	0			Base	T1466	7	73.7	71.6
80	15-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T920	7	90.2	75.5
80	15-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T921	7	99.7	88.3
80	15-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T924	6	94.5	77.2
80	15-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T925	6	100.2	89.3
81	05-May-00	I-9	Art. Sim	15	2	0.8		Base	T977	13	101.1	88.0
83	01-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1803	8	99.7	86.8
83	01-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1804	7	105.8	93.7
83	01-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1806	7	106.5	93.3
83	01-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1808	7	98.7	83.6
83	01-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1811	8	102.7	89.8
83	01-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1812	8	105.6	95.0
86	01-May-00	N-0	Art. Sim	60	2	8.167		Base	T551	7	97.8	81.5
86	06-Jun-00	Post-fledgling	Art Sim.	60			Extrapolation	Base	T1294	6	86.1	81.1
86	06-Jun-00	Post-fledgling	Art Sim.	60			Extrapolation	Cav	T1295	6	108.2	98.2
86	06-Jun-00	Post-fledgling	Art Sim.	90			Extrapolation	Cav	T1297	7	103.0	93.0
86	06-Jun-00	Post-fledgling	Art Sim.	90			Extrapolation	Base	T1299	7	79.7	76.1
86	06-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Base	T1301	7	73.9	70.9
86	06-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Cav	T1304	7	93.7	82.4
86	06-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Cav	T1306	7	98.6	92.3

86	06-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Base	T1307	7	72.5	71.3
86	06-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Base	T1308	7	75.3	73.1
86	06-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Cav	T1309	7	97.8	91.9
86	06-Jun-00	Post-fledgling	Art Sim.	90			Extrapolation	Cav	T1311	2	91.2	85.6
86	06-Jun-00	Post-fledgling	Art Sim.	90			Extrapolation	Base	T1314	2	74.3	73.2
88	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1712	7	86.4	82.3
88	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1713	8	103.3	90.8
88	13-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1714	6	80.5	75.4
88	13-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1716	6	103.9	90.7
88	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1720	7	92.5	84.5
88	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1721	7	108.3	100.1
107	09-Jun-00	Post-fledgling	Art. Sim	45			Extrapolation	Base	T1899	4	95.4	83.0
107	09-Jun-00	Post-fledgling	Art. Sim	45			Extrapolation	Base	T1900	6	98.1	81.4
107	09-Jun-00	Post-fledgling	Art. Sim	45			Extrapolation	Cav	T1901	4	103.5	94.3
107	09-Jun-00	Post-fledgling	Art. Sim	45			Extrapolation	Cav	T1902	6	103.5	94.0
107	09-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1903	4	103.9	95.0
107	09-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1905	4	94.3	83.1
107	09-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1907	7	97.0	75.7
107	09-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1909	7	98.0	84.1
120	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1723	3	98.5	90.0
120	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Cav	T1724	3	107.8	100.8
120	21-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Cav	T1726	3	106.8	97.1
120	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1728	3	99.5	86.5
120	21-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Base	T1733	2	99.2	90.8
120	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1734	3	101.0	92.7
120	21-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Cav	T1735	2	101.7	91.7
120	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Cav	T1736	3	103.2	94.3
126	11-May-00	I-7	Art. Sim	30	0			Base	T984	7	87.0	82.9
126	15-May-00	N-0	Art. Sim	15	2	11.333		Base	T880	7	103.6	89.5
126	13-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1688	7	98.2	96.2
126	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1689	7	92.4	87.8
126	13-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1690	7	107.8	99.2
126	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1691	7	106.3	94.2
126	13-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1692	6	99.2	86.2
126	13-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1695	6	80.4	76.6
126	13-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1700	7	97.1	90.3
126	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1701	3	91.7	87.3
126	13-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1702	8	106.9	98.6
126	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1703	3	109.3	99.7
126	13-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1704	6	106.1	94.7

126	13-Jun-00	Post-fledgling	Art. Sim	60				Extrapolation	Base	T1707	6	84.9	80.0
136	03-May-00	1-4	Art. Sim.	30	1				Base	T1165	5	98.4	81.8
136	08-May-00	1-9	Art. Sim.	15	2	4.517			Base	T1183	6	92.7	90.7
136	08-Jun-00	Post-fledgling	Art. Sim	30				Extrapolation	Base	T1871	5	98.7	84.5
136	08-Jun-00	Post-fledgling	Art. Sim	15				Extrapolation	Base	T1872	8	102.4	89.9
136	08-Jun-00	Post-fledgling	Art. Sim	30				Extrapolation	Cav	T1873	5	102.0	91.8
136	08-Jun-00	Post-fledgling	Art. Sim	15				Extrapolation	Cav	T1874	8	107.8	99.0
136	08-Jun-00	Post-fledgling	Art. Sim	60				Extrapolation	Cav	T1877	8	95.9	85.9
136	08-Jun-00	Post-fledgling	Art. Sim	60				Extrapolation	Base	T1880	8	87.8	74.4
137	21-Apr-00	1-1	Art. Sim	45	0				Base	T1057	7	98.7	78.3
137	24-Apr-00	1-4	Art. Sim.	30	2	3.55			Base	T1148	7	99.7	82.8
137	31-May-00	Post-fledgling	Art. Sim	45				Extrapolation	Cav	T1791	8	102.3	88.7
137	31-May-00	Post-fledgling	Art. Sim	30				Extrapolation	Cav	T1792	4	102.3	89.3
137	31-May-00	Post-fledgling	Art. Sim	45				Extrapolation	Base	T1793	8	98.6	81.2
137	31-May-00	Post-fledgling	Art. Sim	30				Extrapolation	Base	T1794	4	98.0	86.2
137	31-May-00	Post-fledgling	Art. Sim	30				Extrapolation	Cav	T1799	4	105.2	96.8
137	31-May-00	Post-fledgling	Art. Sim	45				Extrapolation	Cav	T1800	7	103.8	94.8
137	31-May-00	Post-fledgling	Art. Sim	30				Extrapolation	Base	T1801	5	97.3	85.6
137	31-May-00	Post-fledgling	Art. Sim	45				Extrapolation	Base	T1802	7	96.4	80.8
139	12-Jun-00	Post-fledgling	Art. Sim	30				Extrapolation	Base	T1652	8	90.7	87.6
139	12-Jun-00	Post-fledgling	Art. Sim	30				Extrapolation	Cav	T1653	8	107.5	97.9
139	12-Jun-00	Post-fledgling	Art. Sim	30				Extrapolation	Cav	T1655	7	106.7	96.8
139	12-Jun-00	Post-fledgling	Art. Sim	60				Extrapolation	Base	T1657	7	82.5	79.5
139	12-Jun-00	Post-fledgling	Art. Sim	90				Extrapolation	Base	T1659	7	82.1	75.4
139	12-Jun-00	Post-fledgling	Art. Sim	90				Extrapolation	Cav	T1662	7	108.5	98.7
139	12-Jun-00	Post-fledgling	Art. Sim	30				Extrapolation	Base	T1664	8	90.9	85.0
139	12-Jun-00	Post-fledgling	Art. Sim	30				Extrapolation	Cav	T1665	8	99.3	90.9
139	12-Jun-00	Post-fledgling	Art. Sim	60				Extrapolation	Cav	T1667	7	99.2	89.4
139	12-Jun-00	Post-fledgling	Art. Sim	60				Extrapolation	Base	T1669	7	82.7	79.5
139	12-Jun-00	Post-fledgling	Art. Sim	90·				Extrapolation	Base	T1671	6	78.5	76.5
139	12-Jun-00	Post-fledgling	Art. Sim	90				Extrapolation	Cav	T1674	6	95.9	81.0
148	12-Jun-00	Post-fledgling	Art. Sim	15				Extrapolation	Base	T1676	8	89.8	87.2
148	12-Jun-00	Post-fledgling	Art. Sim	30				Extrapolation	Base	T1677	7	88.9	84.7
148	12-Jun-00	Post-fledgling	Art. Sim	45				Extrapolation	Base	T1678	4	88.9	85.9
148	12-Jun-00	Post-fledgling	Art. Sim	15				Extrapolation	Cav	T1679	8	105.9	95.5
148	12-Jun-00	Post-fledgling	Art. Sim	30				Extrapolation	Cav	T1680	7	103.7	92.2
148	12-Jun-00	Post-fledgling	Art. Sim	45				Extrapolation	Cav	T1681	5	106.5	94.6
159	24-Apr-00	1-4	Art. Sim	30	2	2.4			Base	T561	11	101.6	90.5
159	30-May-00	Post-fledgling	Art. Sim	30				Extrapolation	Cav	T889	5	108.5	97.5
159	30-May-00	Post-fledgling	Art. Sim	45				Extrapolation	Cav	T890	6	111.8	102.1

159	30-May-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T891	5	100.2	87.1
159	30-May-00	Post-fledgling	Art. Sim	45			Extrapolation	Base	T892	6	101.6	89.2
163	07-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1847	8	101.8	87.8
163	07-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1848	8	100.6	87.6
163	07-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1849	8	109.2	98.7
163	07-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1850	8	109.0	98.1
163	07-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1851	8	107.9	95.7
163	07-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1853	8	97.9	81.8
163	07-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1859	7	100.2	84.9
163	07-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1860	4	101.7	95.8
163	07-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1861	7	107.3	97.3
163	07-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1862	4	107.1	100.9
163	07-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1865	4	105.1	94.9
163	07-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1868	4	93.5	81.4
177	15-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T934	7	96.8	77.6
177	15-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T937	7	103.0	92.5
177	15-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T942	6	100.6	90.5
177	15-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T945	6	92.4	77.1
179	26-Apr-00	I-5	Art. Sim	60	0			Base	T787	13	98.2	84.3
179	03-May-00	N-0	Art Sim.	30	2	6.583		Base	T1167	7	99.7	89.2
183	21-Apr-00	I-4	Art Sim.	30	2	1.667		Base	T1150	7	100.3	89.4
183	25-Apr-00	I-8	Art. Sim	60	2	1.583		Base	T553	4	96.7	80.0
183	28-Apr-00	I-2	Art. Sim	90	0			Base	T951	7	93.4	74.9
183	01-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1428	6	86.7	83.8
183	01-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1429	6	103.0	91.7
183	01-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1431	6	98.3	85.4
183	01-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1433	6	78.5	74.9
183	01-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1435	7	74.0	71.7
183	01-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1437	7	92.4	76.7
183	01-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1442	3	85.6	64.8
183	01-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1444	3	71.8	72.2
183	01-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1446	6	76.2	75.6
183	01-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1448	6	96.0	75.4
183	01-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1450	7	102.2	87.3
183	01-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1451	7	87.2	84.8
184	23-May-00	I-10	Art.Sim	90	1			Base	T1010	8	89.3	71.1
184	25-May-00	N-1	Art Sim.	30	2	2.2		Base	T1161	5	97.5	86.8
194	01-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1819	9	101.4	88.5
194	01-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1820	6	102.8	89.3
194	01-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1821	9	111.3	99.4

194	01-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1822	6	111.9	101.8
194	01-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1831	7	107.9	101.2
194	01-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1833	7	102.1	87.5
194	01-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1834	7	99.5	85.9
197	17-May-00	I-2	Art. Sim	45	0			Base	T1058	5	87.5	86.9
198	21-Apr-00	I-2	Art. Sim	45	2	0.883		Base	T580	6	100.2	83.9
198	25-Apr-00	I-6	Art. Sim	60	0			Base	T1083	5	87.7	79.4
198	30-May-00	Post-fledgling	Art. Sim	45			Extrapolation	Base	T899	5	98.6	82.6
198	30-May-00	Post-fledgling	Art. Sim	45			Extrapolation	Cav	T900	4	102.2	89.8
198	30-May-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T902	6	105.7	94.5
198	30-May-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T904	6	97.2	81.5
201	21-Jun-00	Post-fledgling	Art Sim.	60			Extrapolation	Base	T1518	2	94.8	89.4
201	21-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Cav	T1519	2	107.6	100.7
201	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1524	1	107.1	100.9
201	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Cav	T1525	2	113.1	107.0
201	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Cav	T1526	2	108.8	101.5
201	21-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1527	2	96.7	93.2
201	21-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Base	T1528	3	72.8	65.6
201	21-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Cav	T1529	3	79.4	71.4
205	06-Jun-00	Post-fledgling	Art. Sim	75			Extrapolation	Base	T1036	7	83.7	82.1
205	06-Jun-00	Post-fledgling	Art. Sim	75			Extrapolation	Cav	T1037	6	108.8	97.3
205	06-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1039	7	103.0	92.0
205	06-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1042	6	76.9	75.8
205	06-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Base	T1044	7	75.9	74.3
205	06-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Cav	T1046	7	99.2	88.1
205	06-Jun-00	Post-fledgling	Art Sim.	75			Extrapolation	Cav	T1318	3	105.1	93.4
205	06-Jun-00	Post-fledgling	Art Sim.	75			Extrapolation	Base	T1319	3	80.1	79.0
205	06-Jun-00	Post-fledgling	Art Sim.	90			Extrapolation	Base	T1321	3	80.1	79.3
205	06-Jun-00	Post-fledgling	Art Sim.	90			Extrapolation	Cav	T1324	3	99.5	89.0
205	06-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Cav	T1326	7	95.6	83.4
205	06-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Base	T1328	6	77.5	75.7
206	10-May-00	I-9	Art. Sim	45	2	15.867		Base	T592	7	86.8	83.7
206	25-May-00	I-3	Art. Sim	120	0		No birds	Base	T522	8	85.0	65.9
206	25-May-00	I-3	Art. Sim	120	0			Base	T528	7	89.6	70.2
206	30-May-00	I-8	Art. Sim	150	1			Base	T1054	4	73.9	71.7
207	07-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1835	8	99.0	84.8
207	07-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1836	8	101.7	89.6
207	07-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1838	6	102.5	89.7
207	07-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1840	6	98.0	80.7
207	07-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1842	7	93.8	74.1

207	07-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1844	7	98.0	82.1
216	01-Jun-00	Post-fledgling	Art Sim.	90			Extrapolation	Base	T1420	7	78.9	77.5
216	01-Jun-00	Post-fledgling	Art Sim.	90			Extrapolation	Cav	T1421	7	100.2	86.8
216	01-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Cav	T1423	7	96.4	83.3
216	01-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Base	T1426	7	77.3	74.5
216	01-Jun-00	Post-fledgling	Art Sim.	90			Extrapolation	Base	T1454	7	72.8	72.3
216	01-Jun-00	Post-fledgling	Art Sim.	90			Extrapolation	Cav	T1455	7	95.2	84.2
216	01-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Cav	T1457	8	93.6	83.0
216	01-Jun-00	Post-fledgling	Art Sim.	120			Extrapolation	Base	T1460	8	71.3	71.0
218	08-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1604	7	90.5	85.0
218	08-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1605	7	103.3	92.9
218	08-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1607	7	98.8	87.5
218	08-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1609	7	82.2	77.7
218	08-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1611	8	76.6	73.7
218	08-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1614	8	94.7	80.8
221	18-May-00	I-4	Art. Sim	30	2	3.8		Base	T985	6	88.9	88.1
221	22-May-00	I-7	Art Sim.	60	1			Base	T1164	8	80.7	78.3
221	24-May-00	I-10	Art. Sim	45	0			Base	T1011	8	80.3	77.5
221	23-Jun-00	Post-fledgling	G.S.	30			Extrapolation	Base	T1370	2	97.6	92.3
221	23-Jun-00	Post-fledgling	G.S.	30			Extrapolation	Cav	T1371	2	107.3	100.4
221	23-Jun-00	Post-fledgling	G.S.	60			Extrapolation	Cav	T1372	2	108.3	98.4
221	23-Jun-00	Post-fledgling	G.S.	60			Extrapolation	Base	T1374	1	91.8	89.1
222	08-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1883	7	98.9	87.9
222	08-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1884	8	101.6	89.7
222	08-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1885	7	108.0	99.8
222	08-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1886	8	107.2	98.6
222	08-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1887	8	104.7	94.0
222	08-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1890	8	96.9	80.0
227	25-Apr-00	I-3	Art. Sim	30	0			Base	T992	8	101.0	85.9
227	15-Jun-00	Post-fledgling	Art Sim.	60			Extrapolation	Cav	T1496	6	99.7	86.9
227	15-Jun-00	Post-fledgling	Art Sim.	60			Extrapolation	Base	T1498	6	81.9	78.1
227	15-Jun-00	Post-fledgling	Art Sim.	30			Extrapolation	Base	T1500	4	93.7	91.1
227	15-Jun-00	Post-fledgling	Art Sim.	30			Extrapolation	Cav	T1501	4	105.2	94.7
227	15-Jun-00	Post-fledgling	Art Sim.	30			Extrapolation	Cav	T1502	5	105.6	94.2
227	15-Jun-00	Post-fledgling	Art Sim.	30			Extrapolation	Base	T1503	5	90.8	87.4
227	15-Jun-00	Post-fledgling	Art Sim.	60			Extrapolation	Base	T1504	3	82.9	79.1
227	15-Jun-00	Post-fledgling	Art Sim.	60			Extrapolation	Cav	T1506	3	101.7	88.3
228	07-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1534	7	78.1	74.6
228	07-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1536	7	95.2	79.6
228	07-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Cav	T1538	7	93.3	74.8

228	07-Jun-00	Post-fledgling	Art. Sim	150			Extrapolation	Cav	T1540	6	86.8	68.3
228	07-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Base	T1542	7	71.8	67.2
228	07-Jun-00	Post-fledgling	Art. Sim	150			Extrapolation	Base	T1544	6	68.1	64.0
228	07-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Base	T1547	7	82.3	79.0
228	07-Jun-00	Post-fledgling	Art. Sim	90			Extrapolation	Cav	T1549	7	102.2	90.7
228	07-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Cav	T1550	7	92.2	71.8
228	07-Jun-00	Post-fledgling	Art. Sim	150			Extrapolation	Cav	T1552	7	93.1	75.9
228	07-Jun-00	Post-fledgling	Art. Sim	120			Extrapolation	Base	T1554	7	71.8	63.6
228	07-Jun-00	Post-fledgling	Art. Sim	150			Extrapolation	Base	T1556	6	72.0	60.2
232	10-May-00	I-9	Art Sim.	60	0			Base	T1139	7	97.0	79.1
232	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1976	8	100.6	87.3
232	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1977	7	111.3	101.2
232	13-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1978	11	100.8	88.4
232	13-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1979	11	97.0	79.6
232	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1980	12	100.2	87.8
232	13-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1981	12	108.4	100.7
232	13-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1982	11	106.0	96.2
232	13-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1983	11	99.6	81.2
295	19-May-00	I-3	Art Sim.	90	1			Base	T1151	6	91.8	73.3
295	19-May-00	I-3	Art Sim.	0	0		Blast from Cluster 1	Base	T1152	4	67.0	51.7
295	23-May-00	I-7	Art. Sim	120	0			Base	T989	7	73.3	70.4
295	25-May-00	I-9	Art. Sim	30	2	4.367		Base	T1110	7	92.5	88.0
294/176	23-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1761	2	102.2	96.5
294/176	23-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Cav	T1762	2	106.8	99.5
294/176	23-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Cav	T1763	2	107.7	99.2
294/176	23-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Base	T1765	2	98.9	91.2
294/176	23-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1769	2	98.6	90.7
294/176	23-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Cav	T1770	2	107.4	101.1
294/176	23-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Cav	T1771	1	107.9	99.0
294/176	23-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Base	T1773	1	96.9	87.2
294/176	23-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Base	T1777	2	101.6	95.9
294/176	23-Jun-00	Post-fledgling	Grenade Sim	30			Extrapolation	Cav	T1778	2	106.3	99.9
294/176	23-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Cav	T1780	3	106.3	98.0
294/176	23-Jun-00	Post-fledgling	Grenade Sim	60			Extrapolation	Base	T1782	2	97.6	87.9
296	07-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Base	T1558	6	95.2	90.7
296	07-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Base	T1559	7	88.4	84.7
296	07-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation	Cav	T1560	6	106.3	98.4
296	07-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation	Cav	T1561	7	107.3	98.7
296	07-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Cav	T1562	3	105.4	95.2
296	07-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation	Base	T1565	3	80.3	77.1

296	07-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation: low powder blast	Base	T1570	7	94.5	89.8
296	07-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation: low powder blast	Base	T1571	7	90.6	85.1
296	07-Jun-00	Post-fledgling	Art. Sim	15			Extrapolation: low powder blast	Cav	T1572	7	106.1	94.4
296	07-Jun-00	Post-fledgling	Art. Sim	30			Extrapolation: low powder blast	Cav	T1573	7	107.8	95.1
296	07-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation: low powder blast	Cav	T1576	6	104.3	91.1
296	07-Jun-00	Post-fledgling	Art. Sim	60			Extrapolation: low powder blast	Base	T1579	6	83.1	80.7

Table D.2. Representative unweighted noise spectra for experimental artillery simulators on Fort Stewart, GA, 2000.

CL	Date	Event Type	Event File #	Dist. (m)	10	13	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Calc. Overall SEL
1	5/3	Art. Sim.	T118	30	76	80	83	86	87	89	90	90	90	87		86	89	91	84	81	82	79	77	78	72	71	72	72	70	69	68	66	65	63	61	58	51	30	100
1	5/19	Art. Sim.	T146	60	57	51	55	55	45	56	58	62	67	62	62	68	66	68	69	63	67	64	67	67	66	68	70	70	73	70	67	65	66	65	61	57	47	27	81
1	5/23	Art. Sim	T990	90				48	53	57	59	61	60	58	53	58	61	61	54	52	48	59	60	60	61	61	63	63	62	61	61	58	55	55	50	46	35	20	74
1	5/25	Art. Sim	T1052	120	36	38	43	47	47	48	53	57	58	57	63	65	64	62	52	47	48	52	55	57	58	60	62	61	61	58	58	59	56	51	49	43	32	18	73
2	6/6	Art. Sim	T1012	30	64	57	63	59	59	68	72	76	78	77	77	77	78	77	77	73	73	74	76	81	82	79	79	83	83	79	78	77	76	75	73	71	63	41	92
2	6/6	Art. Sim	T1013	15	73	72	72	74	75	77	79	81	81	76	73	73	79	88	91	85	83	81	81	83	83	84	84	84	85	84	84	83	84	82	82	81	74	48	99
2	6/6	Art. Sim	T1014	30	59	64	71	75	76	77	80	82	84	85	76	87	103	106	84	80	83	95	86	86	87	92	85	89	89	82	81	79	77	76	74	73	67		108
2	6/6	Art. Sim	T1015	15	71	71	82	81	87	86	86	83	79	80	79	85	102	106	86	95	98	97	90	93	92	89	86	92	88	86	84	81	77	76	74	73	67	45	109
2	6/6	Art. Sim	T1020	60	40	45	54	53	54	57	60	64	65	70	73	72	69	70	70	63	63	66	67	71	73	74	75	76	75	73	72	70	69	68	65	62	53	33	85
2	6/6	Art. Sim	T1022	60	71	71	71	74	70	70	71	72	74	76	79	84	97	102	82	74	74	89	83	79	81	75	75	76	76	69	66	63	59	57	55	52	50	48	103
2	6/6	Art. Sim	T1024	15	85	85	84	84	83	82	80	84	86	86	81	86	79	73	78	81	82	85	87	85	81	83	83	85	85	84	84	84	84	84	82	82	75	49	99
2	6/6	Art. Sim	T1025	30										67	68		73	71	73	72	74	73	70	76	80	78	78	76	77	75	76	76	76	76	74	74	72	65	89
2	6/6	Art. Sim	T1026	15			71	76	79	84	80	83	82	93	91	102	100	88	83	86	88	90	84	85	90	90	86	88	88	86	86	81	81	78	78	75	67	42	106
2	6/6	Art. Sim	T1027	30	75	71	71	74	74	75	75	71	74	67	83	88	93	83	82	78	75	73	75	78	73	74	77	80	80	77	77	76	72	70	66	61	53	34	100
2	6/6	Art. Sim	T1028	60	79	83	83	87	85	86	88	88	86	81	84	96	93	89	87	78	79	82	81	81	81	75	75	74	74	72	72	72	70	62	58	53	46	33	102
2	6/6	Art. Sim	T1031	60	54	56	59	59	61	66	70	73	74	69	67	77	77	85	75	71	73	76	70	71	69	70	73	74	75	75	72	72	72	66	62	58	53	32	87
6	5/5	Art. Sim	T873	60	77	77	82	85	87	84	82	86	88	89	89	87	88	92	84	79	76	78	81	79	70	68	65	67	69	66	66	64	60	53	53	41	40	40	101
6	5/5	Art. Sim	T976	60	65	69	73	74	68	70	73	73	75	73	70	62	63	56	59	56	45	61	62	59	62	66	67	65	61	60	57	57	53	50	45	39	29	16	88
6	5/5	Art. Sim	T585	120	63	66	68	71	72	73	75	76	75	67	68	73	63	58	64	55	44	74	68	72	64	61	65	63	62	50	52	47	46	45	40	33	25		84
6	5/9	Art. Sim	T1616	60				72	73	77	77	74	77	82	84	82	89	92	70	65	68	73	72	74	78	77	69	67	68	67	64	63	60	71	70	67	57		90
6	5/9	Art. Sim	T1617	60	71	75	80	82	85	86	90	90	90	93	95	95	94	98	84	85	84	78	81	85	79	77	78	75	75	65	66	60	58	59	62	56	45	32	103
6	5/9	Art. Sim	T1619	60	74	77	74	82	84	88	93	89	89	89	89	87	88	92	84	79	76	73	72	79	70	68	65	67	70	66	60	64	60	62	63	52	40	40	98
6	6/9	Art. Sim	T1622	90	64			82	85	85	88	86	88	89	87	71	63	56	57	59	45	61	62	59	62	66	67	65	61	66	60	57	53	50	45	41	40	16	80
6	6/9	Art. Sim	T1625	120		57		52	63	64	65	67	68	70	73	67	63	58	56	59	45	56	60	59	62	63	63	61	62	50	52	47	46	45	37	31	37	16	76
6	6/9	Art. Sim	T1627	120	67	73	77	73	75	76	75	71	71	67	84	84	89	92	78	71	75	74	82	72	64	73	73	72	68	67	66	64	63	57	57	37	31	40	96
6	6/9	Art. Sim	T1628	60	68	77	80	82	84	84	86	87	88	90	96	96	104	87	85	85	86	84	79	85	79	73	69	67	68	65	66	64	62	59	55	52	46	31	106
6	6/9	Art. Sim	T1629	60			58	58			68	70	75	74	75	75	69	72	71	66	55	65	65	65	67	67	63	65	65	63	60	58	59	55	51	56	40		84
6	6/9	Art. Sim	T1631	90	58	59	59	52	52	63	64	61	68	68	70	71	66	59	55	53	44	57	60	62	65	65	63	65	62	63	56	55	48	54	49				78
6	6/9	Art. Sim	T1634	90	61	69	71	75	77	77	79	81	82	83	86	95	99	80	73	79	82	76	72	71	70	70	60	62	62	56	56	53	48	46	46	42	37		101

#	Date	Type	Dur.	ID	Data values
6	6/9	Art. Sim	120	T1636	65, 69, 72, 74, 76, 78, 78, 79, 78, 82, 90, 97, 78, 74, 66, 72, 69, 63, 62, 62, 63, 60, 54, 59, 55, 53, 54, 51, 48, 44, 44, 43, 34, 31, 98
6	6/9	Art. Sim	120	T1638	55, 58, 62, 64, 62, 63, 59, 57, 59, 57, 46, 54, 56, 60, 59, 57, 56, 53, 46, 44, 38, 31, 73
12	6/9	Art. Sim	30	T1640	74, 60, 78, 75, 74, 73, 75, 78, 79, 77, 77, 76, 76, 77, 80, 81, 75, 77, 78, 73, 71, 73, 67, 71, 57, 91
12	6/9	Art. Sim	30	T1641	74, 66, 79, 71, 80, 85, 88, 92, 95, 103, 83, 82, 80, 76, 68, 87, 83, 81, 75, 72, 76, 84, 81, 64, 61, 53, 56, 105
12	6/9	Art. Sim	60	T1642	73, 79, 81, 82, 84, 85, 88, 89, 94, 85, 73, 74, 71, 72, 72, 71, 65, 72, 67, 68, 64, 62, 58, 52, 43, 53, 40, 98
12	6/9	Art. Sim	60	T1644	82, 84, 85, 90, 91, 92, 94, 67, 60, 66, 52, 62, 55, 63, 62, 64, 65, 66, 56, 50, 52, 56, 45, 51, 79
12	6/9	Art. Sim	90	T1647	66, 61, 64, 69, 70, 64, 68, 64, 68, 67, 69, 67, 66, 67, 63, 66, 57, 45, 59, 61, 56, 50, 42, 45, 39, 78
12	6/9	Art. Sim	90	T1650	67, 63, 60, 54, 64, 68, 77, 81, 85, 100, 67, 72, 76, 78, 80, 72, 70, 65, 56, 59, 53, 61, 59, 53, 42, 45, 39, 101
23	5/30	Art. Sim	45	T1053	74, 60, 65, 68, 69, 74, 76, 78, 77, 75, 71, 74, 62, 67, 68, 69, 70, 73, 73, 68, 67, 63, 68, 61, 67, 59, 51, 86
32	6/22	Gren. Sim	30	T1753	76, 79, 66, 82, 86, 87, 90, 95, 96, 91, 83, 84, 84, 82, 83, 83, 84, 84, 85, 80, 79, 81, 83, 83, 83, 82, 84, 73, 64, 48, 101
32	6/22	Gren. Sim	30	T1754	83, 87, 85, 84, 83, 83, 85, 90, 105, 91, 92, 92, 89, 86, 85, 85, 86, 86, 89, 85, 83, 81, 81, 85, 81, 76, 69, 108
32	6/22	Gren. Sim	60	T1755	61, 71, 74, 71, 74, 78, 83, 83, 81, 81, 81, 92, 81, 88, 89, 99, 86, 85, 86, 80, 75, 81, 81, 81, 66, 63, 61, 76, 50, 43, 110
32	6/22	Gren. Sim	60	T1757	74, 75, 74, 76, 78, 85, 87, 92, 86, 79, 79, 92, 88, 97, 81, 84, 82, 84, 85, 79, 78, 80, 80, 84, 72, 74, 76, 69, 59, 65, 99
36	6/12	Art. Sim	90	T1928	66, 69, 71, 75, 79, 81, 83, 85, 81, 78, 63, 65, 67, 62, 67, 64, 64, 63, 65, 64, 65, 62, 61, 62, 57, 51, 55, 34
36	6/12	Art. Sim	90	T1930	62, 67, 71, 75, 77, 80, 82, 83, 87, 93, 68, 70, 80, 72, 70, 63, 63, 68, 67, 70, 67, 65, 76, 58, 50, 44, 39, 97
36	6/12	Art. Sim	90	T1936	71, 74, 78, 81, 83, 85, 86, 87, 89, 69, 77, 62, 65, 61, 63, 63, 64, 67, 65, 64, 63, 59, 57, 53, 43, 37
36	6/12	Art. Sim	90	T1938	70, 76, 78, 82, 84, 85, 86, 84, 78, 73, 72, 65, 66, 63, 64, 77, 68, 66, 65, 68, 60, 58, 52, 46, 40, 38
36	6/12	Art. Sim	75	T1939	74, 75, 78, 80, 83, 86, 90, 91, 92, 82, 78, 78, 70, 71, 61, 62, 67, 78, 74, 71, 76, 59, 59, 48, 42, 39
36	6/12	Art. Sim	75	T1941	74, 75, 75, 77, 81, 83, 85, 92, 83, 84, 72, 78, 65, 76, 64, 62, 65, 77, 68, 63, 59, 57, 50, 51, 42, 39
36	6/12	Art. Sim	30	T1943	66, 69, 71, 79, 82, 84, 86, 87, 85, 77, 67, 80, 70, 68, 65, 63, 65, 71, 66, 67, 65, 66, 68, 67, 62, 60, 55, 48
36	6/12	Art. Sim	30	T1945	75, 77, 78, 79, 82, 86, 90, 89, 78, 77, 80, 78, 84, 81, 75, 76, 73, 76, 74, 68, 64, 57, 58, 62, 56, 55, 41
41	5/11	Art. Sim	30	T1055	79, 81, 83, 85, 86, 89, 88, 90, 82, 76, 68, 84, 75, 80, 84, 83, 82, 69, 66, 67, 68, 64, 61, 60, 57, 53, 53
41	5/16	Art Sim.	60	T1149	79, 82, 85, 86, 88, 89, 88, 84, 73, 69, 65, 76, 68, 77, 79, 76, 73, 69, 65, 66, 60, 57, 61, 65, 67, 66, 48, 39, 27, 98
42	6/2	Art Sim.	45	T1269	66, 62, 63, 66, 68, 66, 70, 69, 99, 82, 62, 56, 65, 77, 77, 79, 66, 66, 69, 63, 55, 56, 47, 82
42	5/31	Art Sim.	90	T1404	63, 71, 69, 69, 72, 76, 78, 80, 82, 89, 76, 41, 67, 62, 77, 84, 85, 79, 69, 59, 60, 63, 53, 56, 44, 42
42	5/31	Art Sim.	90	T1405	42, 44, 48, 51, 54, 60, 65, 71, 78, 96, 69, 52, 62, 41, 68, 89, 99, 81, 73, 51, 54, 64, 58, 53, 43, 28
42	5/31	Art Sim.	120	T1407	45, 42, 46, 47, 53, 56, 59, 61, 63, 67, 60, 52, 56, 59, 50, 44, 67, 65, 69, 57, 49, 40, 46, 51, 35, 29, 16
42	5/31	Art Sim.	120	T1410	64, 70, 74, 76, 78, 79, 80, 71, 77, 90, 79, 67, 73, 72, 73, 68, 71, 58, 59, 58, 51, 37, 54, 58, 47, 32, 30, 94
42	5/31	Art Sim.	120	T1412	47, 48, 46, 47, 43, 55, 62, 66, 66, 88, 80, 61, 55, 53, 57, 61, 59, 61, 58, 51, 49, 41, 51, 42, 32, 28, 77
42	5/31	Art Sim.	90	T1413	70, 75, 80, 84, 88, 91, 82, 77, 75, 80, 84, 69, 67, 71, 53, 56, 53, 62, 56, 52, 56, 44, 48, 38, 32, 29, 15, 95
42	5/31	Art Sim.	120	T1415	65, 74, 77, 80, 82, 84, 81, 78, 80, 79, 81, 76, 68, 66, 57, 59, 52, 57, 57, 61, 56, 50, 46, 42, 35, 26, 20, 91

#	Date	Type		Code																																		
42	5/31	Art Sim.	120	T1418	39	44	46	40	49	56	60	64	65	66	63	59	55	48	46	52	56	57	60	61	64	63	63	62	59	59	57	53	49	44	38	26	15	75
47	6/5	Art Sim.	15	T1270	56	54	63	74	79	82	85	87	87	87	85	79	81	82	82	83	81	84	85	84	83	82	85	84	80	82	81	78	78	77	70	45	98
47	6/5	Art Sim.	30	T1271	60		59	67	66	66	73	77	77	84	80	91	86	84	73	74	74	75	75	73	79	79	80	76	78	74	73	72	70	68	60	36	97
47	6/5	Art Sim.	45	T1272	57	59	57	50	59	65	66	69	77	70	72	74	75	72	65	68	71	73	72	71	72	74	77	74	74	75	70	71	66	64	57	36	87
47	6/5	Art Sim.	15	T1273		64	70	74	82	85	89	90	87	85	79	81	82	84	90	84	84	82	82	81	79	79	80	82	78	75	73	72	65	65		39	106
47	6/5	Art Sim.	30	T1274	69	76	78	81	80	77	84	86	84	95	86	99	88	89	92	90	85	86	81	85	76	76	78	76	76	76	70	69	66	58	38	111
47	6/5	Art Sim.	45	T1275	52	63	68	73	76	79	79	81	80	79	74	85	82	77	96	79	82	85	84	79	76	74	75	74	74	74	69	67	54	43	31	106
47	6/5	Art Sim.	15	T1282	64	65	69	68	70	73	74	76	76	79	78	85	82	80	84	80	87	80	81	81	82	82	80	80	80	80	80	79	77	69	44	95
47	6/5	Art Sim.	30	T1283			58	65	70	72	74	80	80	83	76	78	83	77	75	77	77	75	77	76	76	76	74	76	74	73	76	70	70	68	59	31	91
47	6/5	Art Sim.	45	T1284	52	61	60	58	59	61	65	68	74	78	74	79	80	76	70	66	66	69	74	76	75	74	76	72	70	75	73	67	55	43	31	88
47	6/5	Art Sim.	15	T1285	77	80	81	83	85	84	81	78	81	81	80	80	89	89	92	90	102	105	85	82	84	86	84	80	82	79	80	74	67	65	43	108
47	6/5	Art Sim.	30	T1286	73	72	75	77	78	80	81	82	85	86	86	86	84	84	87	86	101	103	87	87	79	82	79	75	71	66	66	60	55	43	31	106
51	5/18	Art. Sim	45	T1287	72	75	77	78	78	74	79	74	76	90	71	90	78	72	86	86	98	97	91	83	78	71	71	69	63	62	59	57	47	43	38	103
51	5/31	Art. Sim	30	T840	77																															100

(Data table of ammunition test scores; columns represent sequential time-point readings. Remaining rows: T1737, T1738, T1740, T1742, T1745, T1746, T1748, T1750, T560, T680, T1380, T1381, T1382, T1383, T1386, T1389, T1390.)

C1	Date	Type	Time	ID	Data (reading across)	Final
57	5/31	Art Sim.	75	T139145	48 49 51 51 55 59 64 68 69 66 62 54 62 61 56 57 57 60 63 64 64 64 66 64 62 62 60 58 55 51 42 24	77
57	5/31	Art Sim.	60	T139263	73 78 80 81 79 78 84 80 91 101 76 80 84 72 74 75 73 73 72 72 65 67 73 75 72 73 70 60 54 50 49 42 34	102
57	5/31	Art Sim.	75	T139370	72 76 79 80 81 73 85 76 94 102 78 76 85 69 72 72 68 69 69 59 59 66 72 72 69 70 68 56 53 50 47 41 31	103
57	5/31	Art Sim.	90	T139850	64 68 69 72 72 75 89 78 92 102 74 82 89 74 73 73 78 77 74 63 61 65 73 74 73 71 77 61 56 52 51 47 44	103
57	5/31	Art Sim.	90	T140144	44 46 45 51 55 58 62 69 72 73 62 65 60 63 66 66 60 60 63 65 66 66 65 63 62 61 61 59 56 50 39 23	80
62	5/8	Art. Sim	120	T983	37 34 45 47 52 55 58 60 61 69 56 59 50 61 59 65 58 60 60 62 58 62 66 63 59 53 53 53 49 43 37 26 13	73
62	5/11	Art. Sim	60	T106150	55 54 57 54 62 69 76 74 73 73 70 73 66 74 75 74 72 74 75 75 70 70 72 75 73 68 66 64 59 59 51 39	86
62	5/15	Art. Sim	90	T987	49 51 55 57 62 64 65 63 58 55 63 67 62 67 68 69 64 64 64 66 62 61 57 59 55 52 49 46 42 32 25	78
62	5/15	Art. Sim	90	T988	48 45 48 48 52 52 55 60 61 58 57 65 58 65 64 64 63 62 60 62 58 58 58 64 62 60 57 54 52 46 39 29 19	75
62	6/8	Art. Sim	60	T1582	60 60 71 66 60 67 73 77 70 69 58 60 58 69 72 72 72 70 69 69 71 69 67 71 72 69 64 63 60 51 44 84	84
62	6/8	Art. Sim	60	T1583	69 64 71 73 74 73 84 85 77 75 67 65 67 79 81 82 81 80 78 76 77 80 86 88 95 84 89 80 82 75 60 59 50	108
62	6/8	Art. Sim	90	T1585	67 71 71 73 77 78 84 84 70 85 68 69 69 70 73 74 75 73 81 83 85 86 90 87 85 84 81 83 80 84 84 66 58 43 38	108
62	6/8	Art. Sim	90	T1588	61 62 63 70 74 65 63 62 63 64 62 54 57 64 71 74 78 76 71 70 67 64 66 55 66 66 62 66 66 63 51 44	83
62	6/8	Art. Sim	90	T1592	59 69 71 56 70 69 60 72 67 71 68 67 59 69 71 69 68 66 66 69 77 77 80 75 76 77 79 73 74 71 58 52 44 41	82
62	6/8	Art. Sim	60	T1593	77 81 82 85 84 83 81 81 80 83 90 95 59 70 70 69 68 71 76 76 78 85 85 84 83 85 82 80 77 74 60 50 44	99
62	6/8	Art. Sim	60	T1595	75 77 79 82 83 84 84 82 83 84 91 90 77 63 55 59 66 64 66 63 70 71 68 68 70 70 74 75 76 78 46 38 45	98
62	6/8	Art. Sim	90	T1598	63 63 62 66 64 65 62 67 70 66 68 64 55 62 66 64 64 66 66 63 63 59 55 57 57 59 61 62 57 61 50 39	78
62	6/8	Art. Sim	90	T1600	56 53 64 62 63 56 65 57 56 54 58 63 43 54 57 63 62 54 68 62 70 66 62 63 60 60 46 39 31	74
62	6/8	Art. Sim	120	T1602	71 73 74 77 70 70 62 61 60 70 80 90 66 70 75 73 71 69 68 72 75 75 79 77 57 51 51 36 57	94
62	6/8	Art. Sim	120	T1947	71 73 74 74 79 84 86 90 86 87 76 79 66 84 86 83 86 88 73 73 76 71 80 78 85 76 81 82 69 65 57 51 31	101
71	6/12	Art. Sim	15	T1949	88 91 92 93 90 87 91 91 93 81 77 85 79 88 90 94 90 94 66 69 70 71 76 68 75 73 71 62 59 59 54 47	98
71	6/12	Art. Sim	30	T1950	80 82 86 87 90 86 92 90 86 91 71 76 76 86 90 83 90 92 69 66 63 61 66 71 73 73 70 64 68 62 62 57	101
71	6/12	Art. Sim	15	T1952	78 83 87 83 88 80 92 92 93 93 72 75 82 89 92 92 93 92 66 63 64 66 63 67 72 72 71 69 60 60 60 57	99
71	6/12	Art. Sim	30	T1954	72 73 77 78 80 78 93 94 98 94 67 79 83 82 87 83 92 90 63 60 64 63 61 71 71 73 69 64 47 60 67 54 41	102
71	6/12	Art. Sim	60	T1956	73 74 77 78 82 73 82 80 91 98 68 74 73 74 83 83 90 91 66 60 66 71 67 75 76 73 76 68 51 60 47	98
71	6/12	Art. Sim	60	T1959	82 72 81 79 82 84 85 90 89 91 71 76 82 78 88 83 89 90 71 68 70 71 78 79 79 81 76 76 64 69 62 58 45 51	101
71	6/12	Art. Sim	15	T1961	80 83 87 87 90 92 92 93 91 79 80 83 79 89 92 92 93 89 75 73 76 74 76 79 76 76 75 73 66 67 66 48 51	100
71	6/12	Art. Sim	30	T1963	67 74 74 81 86 86 77 96 109 110 101 81 87 74 76 80 85 82 86 84 81 75 76 73 76 79 80 86 67 62 52	109
71	6/12	Art. Sim	15	T1965	76 75 79 82 81 82 86 96 110 101 84 82 83 87 84 86 94 91 66 59 66 68 67 69 73 68 67 56 52	110
71	6/12	Art. Sim	30	T1967	73 74 76 81 83 83 86 87 68 78 73 87 58 66 63 64 58 67 71 71 68 60 63 58 53 50 50 51 43 40	102
71	6/12	Art. Sim	60	T1969	70 74 76 79 80 84 85 86 86 80 72 64 64 65 63 60 63 59 64 63 60 60 63 63 65 64 53 53 39	94

Grp	Date	Type	Dur	ID																																
75	6/9	Art. Sim	30	T191582	81	82	85	84	83	85	88	89	89	90	86	81	83	80	78	78	75	75	74	72	73	72	69	72	69	63	59	69	48	98
75	6/9	Art. Sim	30	T191670		76	73	78	78	81	82	82	81	86	94	89	81	80	90	96	84	91	88	86	84	82	79	78	77	71	73	69	62	51	69	49	108
75	6/9	Art. Sim	60	T191764	67	71	74	75	76	77	78	78	78	85	94	87	78	78	87	93	79	87	81	74	77	67	67	67	64	61	56	52	51	40	108
75	6/9	Art. Sim	60	T191967	74	74	71	76	77	78	78	72	74	69	85	87	76	70	69	74	70	70	71	70	71	70	69	68	66	63	62	57	50	94
75	6/9	Art. Sim	90	T1921	73	79	73	82	87	89	91	71	69	73	88	83	69	68	68	69	68	68	69	68	65	67	67	65	63	61	55	42	34	98
75	6/9	Art. Sim	90	T192362		73	62	79	83	84	87	88	88	95	89	83	93	87	93	85	81	75	80	75	71	72	67	67	64	59	51	49	38	108
80	5/12	Art. Sim	60	T1071	71	76	73	84	86	85	88	87	89	82	84	74	69	67	69	67	68	68	68	66	68	67	72	68	65	62	57	46	36	96
80	5/16	Art. Sim	90	T594	59	50	52	72	76	72	74	74	76	70	82	74	61	67	67	64	57	50	74	63	63	61	59	61	54	54	47	47	47	85
80	5/19	Art. Sim	75	T1466	47	51	53	58	56	60	62	62	61	59	59	57	54	65	62	57	50	49	59	56	60	59	59	61	54	54	51	46	36	74
80	6/15	Art. Sim	60	T920	72	74	75	74	78	84	75	78	80	75	72	70	59	63	58	62	58	60	63	62	64	63	58	64	60	55	51	40	27	90
80	6/15	Art. Sim	60	T921	73	75	76	75	83	84	80	81	80	81	68	69	72	65	68	68	61	63	58	61	61	60	55	57	55	59	54	47	31	27	100
80	6/15	Art. Sim	90	T924	67	74	77	79	84	83	75	78	79	78	77	74	68	65	64	63	64	65	63	63	62	62	67	66	57	53	49	37	27	95
80	6/15	Art. Sim	90	T925	59	67	73	75	71	76	74	76	78	76	74	73	81	60	65	65	62	60	60	60	60	62	60	60	56	47	41	39	34	100
81	5/5	Art. Sim	15	T977	82	86	90	91	93	94	93	89	86	87	97	85	77	77	75	75	75	75	73	74	72	73	75	71	70	67	57	34	101
83	6/1	Art. Sim	30	T1803	76	82	85	87	88	90	92	86	85	84	86	70	76	74	72	74	74	72	75	73	78	68	73	73	70	63	56	100
83	6/1	Art. Sim	30	T1804	73	77	74	80	80	81	82	82	82	79	77	78	84	82	82	78	80	78	72	73	73	70	67	65	57	106
83	6/1	Art. Sim	60	T1806	73	77	80	83	82	81	84	85	90	76	83	70	88	84	90	79	75	78	72	70	73	65	66	62	52	48	40	27	106
83	6/1	Art. Sim	60	T1808	78	80	83	86	88	82	90	88	87	98	84	59	84	79	85	76	76	73	72	71	74	68	66	62	59	55	49	45	50	99
83	6/1	Art. Sim	30	T1811	86	87	89	87	83	84	91	90	97	90	79	76	85	80	84	76	76	70	66	63	70	63	59	61	56	52	54	46	41	103
83	6/1	Art. Sim	30	T181268	78	77	70	75	78	80	84	84	88	93	84	50	80	79	88	66	66	67	63	63	64	64	61	61	60	57	52	50	45	106
86	5/1	Art. Sim	60	T551	72	80	83	85	80	84	81	87	86	97	102	56	79	73	85	58	65	58	59	56	59	59	61	56	60	53	50	42	19	80
86	6/6	Art. Sim	60	T1294	51	52	54	55	59	56	59	81	76	86	84	56	62	63	70	52	58	54	54	54	56	59	56	56	55	50	46	36	74
86	6/6	Art. Sim	60	T1295	65	69	71	73	74	78	79	77	76	75	72	69	65	61	61	62	63	54	59	55	56	54	48	49	44	41	37	37	27	94
86	6/6	Art. Sim	90	T1297	71	73	75	74	76	77	81	79	86	69	86	68	82	65	83	61	73	61	63	61	66	63	56	56	46	43	41	43	31	99
86	6/6	Art. Sim	90	T1299	73	75	76	77	79	78	74	80	82	82	92	76	76	65	80	60	67	59	63	63	66	63	56	59	53	46	46	35	38	103
86	6/6	Art. Sim	120	T130138	78	77	78	77	77	78	79	65	67	67	69	50	76	58	79	50	65	60	63	60	59	60	50	50	53	50	42	51	19	80
86	6/6	Art. Sim	120	T130462	72	74	77	76	76	74	77	66	71	63	69	48	63	57	70	43	65	54	56	59	56	56	48	56	50	44	37	37	27	74
86	6/6	Art. Sim	120	T130665	75	76	78	77	78	79	79	77	75	75	75	76	85	82	98	70	76	61	61	65	64	67	62	60	49	43	47	41	50	94
86	6/6	Art. Sim	120	T130745	60	58	55	54	48	49	57	50	57	58	52	56	52	80	61	62	59	63	59	63	59	49	43	46	41	38	45	21	73
86	6/6	Art. Sim	120	T1308	53	48	50	56	58	61	64	65	63	64	63	52	56	57	56	60	62	64	61	63	60	58	54	51	52	51	42	41	21	75
86	6/6	Art. Sim	120	T130967	68	72	75	77	79	80	81	80	78	76	72	74	79	78	96	82	85	76	67	65	67	64	58	54	46	52	37	34	98

No.	Date	Type	Dur	Tree ID	Readings (adjacent to ID → top)
86	6/6	Art. Sim.	90	T1311	57 63 61 71 76 75 78 78 79 78 76 77 87 76 71 71 75 82 68 65 63 64 65 62 59 53 52 43 39 35 32 91
86	6/6	Art. Sim.	90	T1314	40 44 49 49 55 57 62 64 61 55 51 48 46 55 57 60 61 65 63 63 65 61 59 56 55 53 50 40 16 74
88	6/13	Art. Sim	30	T1712	73 67 81 78 71 78 64 62 61 68 69 74 73 70 69 73 73 69 68 66 72 63 63 63 61 56 61 54 56 86
88	6/13	Art. Sim	30	T1713	74 81 83 86 86 87 83 80 80 75 73 73 70 69 73 72 69 64 63 60 58 53 103
88	6/13	Art. Sim	60	T1714	66 63 65 68 66 81 82 85 84 80 79 77 75 81 65 64 65 60 58 55 52 53 56 56 81
88	6/13	Art. Sim	60	T1716	71 63 79 79 85 88 68 63 71 89 83 79 77 75 81 72 71 69 67 60 63 57 53 55 45 45 52 45 104
88	6/13	Art. Sim	30	T1720	76 72 74 83 88 87 79 81 75 83 81 74 72 73 73 72 70 72 73 67 69 65 67 50 62 93
88	6/13	Art. Sim	30	T1721	70 74 76 78 81 88 70 79 74 85 89 85 85 85 76 77 73 74 73 69 76 73 70 67 65 60 62 49 56 108
107	6/9	Art. Sim	45	T1899	78 80 76 77 85 88 79 85 107 99 84 80 78 77 75 85 73 71 72 70 76 69 63 59 95
107	6/9	Art. Sim	45	T1900	75 80 83 86 90 88 86 69 77 76 75 65 69 71 71 73 69 63 66 63 59 63 98
107	6/9	Art. Sim	45	T1901	72 78 81 90 88 81 73 70 76 78 75 67 71 73 72 71 69 66 62 60 63 52 57 104
107	6/9	Art. Sim	45	T1902	73 83 82 81 80 82 84 73 81 80 80 77 72 71 73 72 68 69 65 56 55 52 104
107	6/9	Art. Sim	60	T1903	65 68 73 74 72 81 82 88 102 95 80 81 82 77 73 73 71 65 69 62 68 55 62 104
107	6/9	Art. Sim	60	T1905	70 73 74 77 78 81 74 72 84 96 89 78 82 79 73 73 73 71 70 68 54 39 53 44 94
107	6/9	Art. Sim	90	T1907	73 78 79 87 88 87 82 86 103 96 80 84 79 81 71 72 73 62 58 59 55 42 97
107	6/9	Art. Sim	90	T1909	70 78 80 80 82 88 81 83 71 80 89 84 86 78 78 77 77 79 61 54 43 41 98
120	6/21	Gre. Sim.	30	T1723	69 78 82 85 83 84 85 87 84 86 79 84 82 84 87 79 79 81 76 75 72 75 108
120	6/21	Gren. Sim	30	T1724	85 83 85 81 84 87 83 86 80 86 91 84 83 85 87 84 81 82 84 82 77 69 75 107
120	6/21	Gren. Sim	60	T1726	67 76 75 77 72 75 78 75 77 74 89 80 82 76 83 74 72 71 71 68 61 56 52 47 99
120	6/21	Gren. Sim	30	T1728	69 71 78 79 84 84 92 81 78 83 82 76 80 73 73 72 71 71 68 69 65 62 55 99
120	6/21	Gren. Sim	60	T1733	76 79 80 79 81 82 90 79 83 81 79 81 79 85 82 80 77 80 75 75 72 71 69 62 101
120	6/21	Gren. Sim	30	T1734	81 85 80 81 81 83 84 82 81 82 84 89 90 82 82 81 80 82 78 72 74 73 69 102
120	6/21	Gren. Sim	60	T1735	82 84 81 83 82 85 82 84 79 86 86 85 85 81 82 78 72 63 67 58 103
120	6/21	Gren. Sim	30	T1736	80 83 82 82 85 85 90 84 86 90 87 89 85 85 84 83 81 83 70 67 65 61 58 67 87
126	5/11	Art. Sim	30	T984	53 62 56 58 68 74 75 73 70 74 71 75 72 74 73 72 73 76 69 67 63 61 47 48 104
126	5/15	Art. Sim	15	T880	84 87 88 85 81 86 88 97 96 95 77 85 85 85 84 84 83 72 70 73 66 63 58 50 79 52 98
126	6/13	Art. Sim	15	T1688	74 87 88 96 91 94 85 84 85 86 85 74 76 74 73 74 72 63 92
126	6/13	Art. Sim	30	T1689	68 72 77 75 76 77 78 80 83 81 80 83 76 79 75 70 72 52 63 108
126	6/13	Art. Sim	15	T1690	84 82 82 82 86 83 86 89 92 101 105 92 86 90 87 85 83 80 85 80 83 71 63 52 106
126	6/13	Art. Sim	30	T1691	73 79 85 88 89 87 88 81 85 90 102 85 89 82 81 80 82 74 76 72 75 70 71 49 99
126	6/13	Art. Sim	60	T1692	66 75 75 72 76 77 79 81 82 83 73 71 70 74 75 66 68 72 62 58 50 48 49 99

Plot	Date	Type	Dur	Tag	Data readings (left → right, last value at far right)
126	6/13	Art. Sim	60	T1695	66, 70, 71, 64, 0, 68, 64, 66, 65, 61, 68, 66, 64, 66, 65, 66, 66, 67, 66, 62, 64, 63, 61, 60, 56, 51, 42, 80
126	6/13	Art. Sim	15	T1700	75, 74, 74, 77, 82, 88, 90, 82, 79, 78, 82, 78, 80, 79, 78, 81, 81, 80, 76, 77, 74, 72, 76, 74, 72, 63, 63, 59, 97
126	6/13	Art. Sim	30	T1701	77, 80, 72, 75, 80, 76, 78, 78, 78, 76, 77, 77, 73, 74, 75, 73, 78, 76, 76, 73, 71, 70, 71, 68, 65, 65, 59, 92
126	6/13	Art. Sim	15	T1702	81, 79, 89, 87, 94, 90, 88, 92, 89, 88, 83, 85, 87, 82, 81, 87, 89, 104, 92, 99, 88, 89, 87, 70, 68, 67, 62, 60, 52, 107
126	6/13	Art. Sim	30	T1703	77, 84, 85, 87, 82, 84, 85, 86, 85, 80, 83, 83, 85, 87, 108, 102, 89, 87, 70, 66, 62, 52, 109
126	6/13	Art. Sim	60	T1704	76, 73, 77, 70, 78, 77, 78, 79, 78, 79, 78, 77, 76, 84, 86, 78, 78, 87, 93, 91, 88, 92, 89, 87, 70, 77, 73, 70, 46, 106
126	6/13	Art. Sim	60	T1707	59, 67, 70, 67, 73, 72, 72, 80, 72, 67, 65, 66, 66, 65, 60, 67, 66, 76, 79, 76, 75, 70, 67, 62, 59, 56, 52, 49, 44, 40, 85
136	5/3	Art. Sim.	30	T1165	80, 82, 82, 70, 72, 68, 71, 74, 78, 77, 81, 71, 65, 70, 68, 62, 89, 92, 89, 80, 85, 82, 79, 59, 52, 66, 98
136	5/8	Art. Sim.	15	T1183	60, 62, 66, 69, 70, 72, 68, 67, 74, 74, 74, 74, 73, 78, 81, 80, 81, 78, 77, 75, 78, 77, 74, 39, 93
136	6/8	Art. Sim	30	T1871	78, 84, 80, 84, 81, 76, 74, 81, 76, 75, 74, 77, 76, 87, 89, 85, 91, 91, 85, 79, 71, 68, 62, 48, 59, 99
136	6/8	Art. Sim	15	T1872	87, 81, 82, 82, 79, 79, 80, 77, 81, 82, 74, 73, 79, 76, 92, 90, 87, 85, 84, 81, 81, 72, 70, 67, 70, 55, 102
136	6/8	Art. Sim	30	T1873	77, 83, 84, 86, 80, 80, 77, 84, 81, 84, 83, 77, 78, 97, 92, 85, 86, 82, 83, 84, 75, 71, 58, 63, 53, 57, 102
136	6/8	Art. Sim	15	T1874	77, 79, 79, 81, 86, 88, 90, 92, 84, 79, 71, 78, 84, 88, 86, 86, 83, 80, 86, 74, 76, 73, 70, 108
136	6/8	Art. Sim	60	T1877	74, 72, 72, 76, 78, 79, 71, 67, 66, 65, 66, 67, 59, 60, 65, 78, 79, 78, 79, 78, 86, 77, 65, 52, 48, 48, 96
136	6/8	Art. Sim	60	T1880	70, 73, 75, 70, 73, 80, 66, 65, 60, 54, 56, 65, 56, 54, 60, 78, 80, 78, 80, 79, 79, 74, 66, 59, 39, 88
137	4/21	Art. Sim	45	T1057	79, 83, 85, 83, 87, 81, 72, 73, 64, 63, 61, 66, 64, 63, 67, 82, 83, 79, 88, 83, 80, 73, 63, 57, 53, 99
137	4/24	Art. Sim.	30	T1148	83, 87, 89, 83, 89, 86, 73, 78, 71, 70, 71, 72, 74, 65, 70, 85, 85, 84, 88, 84, 83, 77, 71, 58, 61, 46, 100
137	5/31	Art. Sim	45	T1791	80, 80, 77, 80, 79, 78, 76, 76, 77, 73, 76, 78, 75, 77, 70, 94, 94, 81, 91, 88, 80, 83, 77, 59, 54, 102
137	5/31	Art. Sim	30	T1793	73, 72, 73, 77, 81, 82, 75, 75, 70, 76, 70, 71, 79, 75, 77, 101, 101, 83, 85, 88, 80, 84, 79, 52, 102
137	5/31	Art. Sim	45	T1794	83, 85, 87, 83, 86, 85, 70, 78, 71, 73, 69, 77, 72, 74, 79, 83, 75, 84, 87, 92, 89, 78, 80, 65, 52, 55, 99
137	5/31	Art. Sim	30	T1799	80, 78, 77, 89, 90, 92, 79, 79, 83, 83, 79, 74, 81, 80, 81, 86, 80, 91, 91, 90, 81, 68, 72, 65, 62, 98
137	5/31	Art. Sim	30	T1800	76, 77, 80, 82, 87, 90, 83, 83, 84, 80, 77, 76, 78, 80, 73, 78, 77, 88, 79, 81, 76, 69, 60, 66, 56, 105
137	5/31	Art. Sim	45	T1801	82, 84, 88, 88, 80, 82, 83, 84, 85, 74, 72, 73, 72, 74, 79, 87, 87, 88, 87, 87, 81, 73, 63, 55, 51, 104
137	5/31	Art. Sim	30	T1802	78, 85, 88, 89, 87, 78, 77, 79, 85, 78, 80, 74, 78, 77, 78, 85, 85, 89, 85, 80, 79, 70, 57, 70, 97
139	6/12	Art. Sim	45	T1652	82, 67, 80, 81, 76, 80, 77, 76, 75, 77, 80, 72, 76, 77, 78, 74, 79, 82, 78, 78, 80, 70, 57, 96
139	6/12	Art. Sim	30	T1653	80, 80, 78, 81, 83, 82, 76, 80, 78, 79, 84, 94, 86, 79, 84, 85, 82, 86, 106, 102, 79, 84, 63, 52, 57, 91
139	6/12	Art. Sim	30	T1655	73, 75, 75, 79, 84, 85, 82, 83, 84, 80, 83, 93, 83, 84, 82, 83, 80, 84, 104, 101, 83, 83, 56, 61, 52, 49, 108
139	6/12	Art. Sim	30	T1657	63, 64, 66, 68, 70, 68, 65, 63, 62, 65, 64, 67, 70, 69, 68, 64, 70, 64, 71, 73, 71, 64, 61, 58, 55, 47, 107
139	6/12	Art. Sim	60	T1659	56, 59, 61, 66, 72, 69, 59, 60, 62, 63, 66, 60, 65, 66, 59, 62, 63, 65, 72, 73, 70, 63, 50, 58, 39, 82
139	6/12	Art. Sim	90	T1659	61, 63, 68, 71, 75, 65, 60, 63, 66, 65, 63, 65, 61, 66, 58, 58, 61, 65, 77, 77, 65, 68, 57, 52, 82
139	6/12	Art. Sim	90	T1662	64, 74, 75, 78, 76, 79, 80, 85, 86, 83, 85, 95, 107, 103, 85, 73, 51, 57, 52, 44, 109

139	6/12	Art. Sim	30	T1664	71		79	76		80	78	65	83	80	76	82	76	63	77	77	69	76	76	73	75	76	73	75	73	69	72	70	65	68	64		53		91
139	6/12	Art. Sim	30	T1665	80	82	84	84	84	85	84	82	86	87	85	81	84	89	95	89	83	80	83	80	79	77	76	72	74	63	66	66	60	62	59	55	49		99
139	6/12	Art. Sim	60	T1667	68	62	74	73	83	87	87	85	87	84	84	85	84	93	94	84	81	79	82	73	74	72	69	66	64	56	64	63	58	53	47				99
139	6/12	Art. Sim	60	T1669			69	69	59	68	72	63	73	69	68	72	64	64	70	69	59	66	66	63	69	69	68	70	70	68	68	68	65	64	62	56	41		83
139	6/12	Art. Sim	90	T1671			64	64		64	58	64	67	66	68	67	58	52	54	59	56	60	61	63	65	67	68	67	66	66	64	63	62	60	58	53	42		79
139	6/12	Art. Sim	90	T1674		70	72	76	80	82	84	87	87	85	88	87	82	85	75	74	75	72	69	70	70	68	65	59	57	53	58	56	49	46	40		35		96
148	6/12	Art. Sim	15	T1676			79			77	77	72	78	74	68	79	72	72	75	77	71	75	76	76	78	76	77	76	77	74	76	74	70	70	68	64	59		90
148	6/12	Art. Sim	30	T1677	76		68	78		74	78	69	79	76	77	80	72	0	73	71	64	74	71	70	74	76	71	75	74	72	74	72	62	68	64	55	50		89
148	6/12	Art. Sim	45	T1678	71		73			77	77	75	78	77	62	74	76	71	76	75	62	74	75	72	73	75	76	77	76	73	75	73	64	70	66	58	53		89
148	6/12	Art. Sim	15	T1679			73	70	77	79	79	78	82	80	77	82	104	100	85	82	81	92	82	84	80	80	76	74	74	70	69	67	61	62	59		54		106
148	6/12	Art. Sim	30	T1680		70	76	78	83	84	84	83	85	85	86	86	102	97	81	83	84	83	78	82	79	76	71	71	72	66	70	66	56	52	59	70	52		104
148	6/12	Art. Sim	45	T1681	81		67	73	79	79	74	73	76	79	80	82	105	99	78	77	73	90	77	81	73	74	69	70	71	61	65	61		59			49		106
159	4/24	Art. Sim	30	T561	83	87	89	90	89	83	81	86	79	86	96	94	92	88	87	81	79	78	78	76	75	77	78	80	80	78	76	76	74	73	72	70	63	37	102
159	5/30	Art. Sim	30	T889	69	72	74	77	77	78	77	70	81	84	80	91	108	96	82	84	84	95	82	86	80	80	79	80	78	72	69	66	62	59	57	53	43	29	109
159	5/30	Art. Sim	45	T890	74	77	80	82	82	81	81	81	83	87	88	92	111	100	85	89	86	99	88	91	87	90	88	88	85	81	79	77	77	75	73	71	65	41	112
159	5/30	Art. Sim	30	T891	74	80	83	84	85	87	86	82	91	93	88	94	91	81	86	79	78	77	73	74	74	75	73	74	74	72	71	70	68	65	62	58	48	30	100
159	5/30	Art. Sim	45	T892	80	83	86	87	88	87	80	87	94	96	94	86	87	88	82	80	82	79	79	77	78	77	77	77	77	76	75	73	70	67	63	58	47	36	102
163	6/7	Art. Sim	15	T1847	83	86	89	89	86	80	90	95	96	93	87	88	83	84	84	81	80	79	78	77	77	75	73	77	76	72	74	72	68	67	63	55	53		102
163	6/7	Art. Sim	30	T1848	82	86	87	87	84	83	87	91	87	92	93	92	89	82	88	82	78	79	77	76	76	75	75	74	73	69	72	69	62	64	59		55		101
163	6/7	Art. Sim	15	T1849	78	70	82	85	81	83	83	84	89	90	88	99	108	85	84	86	93	92	85	89	85	83	81	82	87	74	73	70	66	65	60	56	57		109
163	6/7	Art. Sim	30	T1850	73		80	83	78	81	84	84	87	90	92	100	108	88	83	82	94	92	83	90	86	83	80	78	76	70	73	72	64	63	61	57	52		109
163	6/7	Art. Sim	60	T1851	76	75	77	79	77	77	80	82	79	85	86	96	107	91	81	82	89	89	80	83	77	76	72	73	71	66	65	62	59	58	50		49		108
163	6/7	Art. Sim	60	T1853	79	83	85	85	85	82	84	86	82	92	92	81	85	78	70	71	65	67	68	66	69	70	69	72	70	68	67	66	61	58	53		40		98
163	6/7	Art. Sim	30	T1859	78	82	82	87	88	91	92	93	91	88	88	88	81	81	82	79	77	76	74	71	75	74	71	73	73	68	70	69	62	64	58				100
163	6/7	Art. Sim	15	T1860		82	82	83	82	81	86	87	90	91	89	92	93	92	91	85	87	85	85	84	85	84	85	84	84	83	83	81	80	79	75	73	65		102
163	6/7	Art. Sim	30	T1861	75		77	67	78	80	82	83	85	83	85	88	104	103	82	82	85	94	84	86	84	82	79	77	74	70	70	69	64	62	58	57	49		107
163	6/7	Art. Sim	15	T1862	80	88	90	88	86	86	81	82	82	79	83	86	101	102	84	94	95	96	90	92	91	90	88	87	83	85	83	80	79	76	76	74	67		107
163	6/7	Art. Sim	60	T1865	73	72	73	75	71	74	75	75	78	79	81	86	101	102	83	74	73	91	82	79	82	77	71	69	70	67	67	64	57	56	47	46	49		105
163	6/7	Art. Sim	60	T1868	67	73	75	76	79	81	80	83	83	84	86	86	83	78	72	70	71	70	69	69	70	71	71	69	69	67	67	66	62	61	53		45		94
177	6/15	Art. Sim	60	T934	60	77	81	84	86	88	89	89	89	85	81	80	82	81	74	76	69	67	64	63	61	62	61	61	61	59	57	56	54	52	49	45	37	26	97
177	6/15	Art. Sim	60	T937	51	72	76	78	77	79	77	78	78	75	73	82	101	96	84	83	81	88	78	82	80	76	73	70	70	68	60	57	53	51	47	44	42	38	103

177	6/15	Art. Sim	60	T942	65	72	76	78	78	79	79	74	68	73	79	78	85	100	90	82	80	78	81	74	71	65	67	65	61	57	54	50	46	43	41	39	38	36	101
177	6/15	Art. Sim	60	T945	73	76	79	81	83	84	85	83	80	76	81	80	76	77	68	69	71	72	70	68	67	63	60	61	61	60	57	56	54	53	50	45	36		92
179	4/26	Art. Sim	60	T787	64	75	79	82	85	87	89	90	91	91	88	82	77	81	82	77	78	74	73	74	73	72	73	72	71	71	68	66	64	61	57	52	45	41	98
179	5/3	Art Sim.	30	T1167	79	83	85	86	86	87	88	87	83	82	90	93	91	84	86	86	80	82	80	76	77	77	75	76	75	74	74	71	70	68	65	61	53	31	100
183	4/21	Art Sim.	30	T1150	79	83	86	88	90	91	88	80	88	91	90	91	91	80	76	77	75	72	72	74	74	74	75	74	76	81	82	76	77	73	74	72	64	42	100
183	4/25	Art. Sim	60	T553	54	72	79	84	88	89	87	88	85	79	87	87	84	78	76	72	65	65	63	65	66	65	66	69	69	68	64	62	60	58	54	49	39	28	97
183	4/28	Art. Sim	90	T951	64	77	80	82	83	83	79	78	85	88	85	75	71	69	72	64	62	61	61	61	62	64	65	64	60	60	59	54	53	48	42	37	30	22	93
183	6/1	Art. Sim	30	T1428			60	61	60	64	67	71	74	77	78	76	74	66	69	73	72	70	73	71	71	72	73	74	74	72	70	70	69	69	67	65	56	30	87
183	6/1	Art. Sim	30	T1429	58	71	74	72	74	81	84	85	82	87	86	88	101	96	77	83	85	84	78	81	77	74	69	70	71	67	67	62	55	52	49	44	38	30	103
183	6/1	Art. Sim	60	T1431	66	72	75	77	80	83	85	85	86	86	87	87	94	91	78	80	77	71	72	75	69	65	60	63	64	58	60	54	48	43	39	36	34	25	98
183	6/1	Art. Sim	60	T1433	50		45	48	45	57	62	65	69	70	71	68	59	57	58	59	56	56	56	60	62	63	64	65	67	64	63	62	60	59	57	54	45	22	78
183	6/1	Art. Sim	90	T1435	47		37	46	43	51	57	59	62	67	65	61	50	44	45	47	47	54	57	59	59	61	63	63	62	61	60	57	55	53	50	45	34	20	74
183	6/1	Art. Sim	90	T1437	66	71	74	74	74	78	82	83	81	85	83	81	82	81	74	70	67	64	64	67	60	55	50	59	60	52	56	50	43	39	33	30	29	26	92
183	6/1	Art. Sim	90	T1442	60	64	66	67	71	74	76	77	79	80	76	69	66	64	59	51	44	46	42	41	50	50	55	52	47	50	43	44	43	35	28	0	22		86
183	6/1	Art. Sim	90	T1444						45	47	53	54	56	53	46	47	46	45	45	42	47	52	57	58	62	65	63	63	62	59	57	55	52	48	42	35		72
183	6/1	Art. Sim	60	T1446	49		41	53	53	59	59	57	56	61	64	63	58	52	54	55	57	60	61	63	64	67	66	66	67	65	62	60	59	57	54	50	43	28	76
183	6/1	Art. Sim	60	T1448	68	76	80	83	87	89	87	84	80	83	89	88	78	68	64	64	63	62	57	51	60	54	56	56	53	53	48	50	49	43	38	34	29	23	96
183	6/1	Art. Sim	30	T1450	77	81	84	86	88	88	85	79	86	94	97	96	87	79	82	87	81	79	76	72	71	69	70	71	68	63	62	63	58	59	55	47	43	31	102
183	6/1	Art. Sim	30	T1451		55	62	63	60	65	67	64	68	76	79	79	74	70	65	68	69	71	73	69	71	74	75	76	76	73	72	70	68	67	65	62	59	53	87
184	5/23	Art.Sim	90	T1010	64	72	75	77	78	78	77	70	81	85	80	74	64	61	60	56	54	55	60	60	60	59	59	60	58	58	56	53	50	46	41	34	22		89
184	5/25	Art Sim.	30	T1161	64	68	72	76	79	83	85	87	88	90	90	89	86	83	81	77	76	74	74	75	74	75	76	78	74	74	72	69	68	66	64	60	51		97
194	6/1	Art. Sim	15	T1819	83	85	88	90	91	92	92	91	92	90	88	88	83	86	86	84	82	81	79	76	77	76	75	75	77	74	74	72	70	68	64	57	53		101
194	6/1	Art. Sim	30	T1820	75	82	85	87	89	89	89	89	89	95	95	96	91	86	86	85	80	82	78	78	76	76	74	74	74	70	72	71	64	65	61	58	48		103
194	6/1	Art. Sim	15	T1821	79	75	75	81	81	86	85	88	89	91	98	110	89	79	88	90	98	85	93	89	86	85	82	82	78	73	71	68	66	62	57	56	52		111
194	6/1	Art. Sim	30	T1822	81	86	86	85	85	85	83	82	84	88	98	110	92	90	99	95	101	87	94	90	90	89	87	85	82	81	79	78	77	76	74	73	65		112
194	6/1	Art. Sim	15	T1831	78	87	85	85	85	87	88	85	84	83	85	86	92	106	92	91	96	89	96	90	90	87	87	88	86	80	81	78	77	75	74	72	66		108
194	6/1	Art. Sim	15	T1833	82	85	89	92	93	94	94	92	91	90	85	86	88	85	83	82	82	80	79	78	78	76	72	73	73	69	70	68	64	66	60	61	53		102
194	6/1	Art. Sim	15	T1834	81	80	84	78	81	86	90	92	92	92	89	88	84	76	82	81	71	77	76	73	76	75	72	73	74	68	74	72	63	64	59	55	56		99
197	5/17	Art. Sim	45	T1058	55		59	55	59	62	67	71	74	75	74	70	65	72	69	65	64	68	72	73	76	78	77	78	78	75	75	72	69	68	65	62	53	34	87
198	4/21	Art. Sim	45	T580	70	76	75	70	83	90	93	91	90	94	91	86	81	76	75	74	78	76	78	72	69	70	70	70	71	69	68	67	63	61	58	53	42	32	100
198	4/25	Art. Sim	60	T1083	61	56	51	59	67	69	70	71	76	78	80	83	77	76	69	70	68	68	67	68	68	68	68	69	69	67	66	64	62	59	56	54	53	49	88

Note: This page is a single large rotated data table. Each record (row) has its page group, date, type, a duration value, an ID, and a series of numeric readings. The readings are listed from the column adjacent to the ID outward.

Page	Date	Type	Dur	ID	Readings
198	5/30	Art. Sim	45	T899	74 76 78 80 84 88 91 91 90 90 89 87 80 76 81 78 75 72 72 71 71 70 69 69 70 67 66 63 61 59 54 48 39 99
198	5/30	Art. Sim	45	T900	63 66 65 63 71 79 82 83 83 82 83 89 101 77 89 81 83 75 80 78 68 68 67 68 70 63 60 58 54 50 47 41 38 102
198	5/30	Art. Sim	60	T902	74 74 72 74 73 71 72 76 80 81 84 91 105 95 84 79 79 79 83 77 72 69 68 68 64 63 61 57 54 51 49 46 44 42 106
198	5/30	Art. Sim	60	T904	76 80 82 83 83 80 72 76 89 86 85 88 104 97 86 78 80 74 78 78 68 68 66 69 68 66 64 61 59 56 51 46 36 21 97
201	6/21	Art. Sim.	60	T1518	82 78 80 85 85 88 95 85 81 86 91 91 98 91 86 83 78 78 80 69 69 77 80 78 78 76 74 71 69 64 95
201	6/21	Gre. Sim	60	T1519	78 77 79 80 76 83 81 85 88 86 99 106 95 107 85 81 83 77 86 78 82 91 98 86 78 75 80 82 80 78 75 72 71 61 108
201	6/21	Gren. Sim	30	T1524	87 97 95 97 88 95 96 98 94 91 88 94 99 99 93 87 81 83 90 88 91 91 92 89 83 84 83 85 86 90 88 78 43 107
201	6/21	Gren. Sim	30	T1525	93 98 99 95 97 95 98 92 92 97 98 109 99 86 93 92 98 83 96 98 91 89 95 101 91 105 109 99 98 98 97 92 92 74 113
201	6/21	Gren. Sim	30	T1526	79 83 86 85 81 79 81 84 85 88 85 91 95 107 99 86 83 82 84 86 91 92 88 88 86 88 88 80 81 83 84 78 79 67 109
201	6/21	Gren. Sim	30	T1527	74 74 76 78 81 83 83 84 62 62 62 82 79 85 63 65 61 78 82 80 81 79 81 86 83 83 82 82 84 83 81 80 78 68 97
201	6/21	Gren. Sim	60	T1528	56 60 63 62 59 61 59 64 61 42 60 61 42 85 64 66 60 57 55 46 58 59 62 55 50 55 50 50 55 53 53 46 43 73
201	6/21	Gren. Sim	60	T1529	54 57 62 57 56 72 57 67 64 60 78 62 57 57 56 54 53 55 58 54 50 53 55 53 50 44 45 50 40 33 79
205	6/6	Art. Sim	75	T1036	61 61 59 54 55 56 60 61 69 72 66 66 70 69 61 56 60 57 73 73 72 73 66 66 70 68 68 53 45 40 31 84
205	6/6	Art. Sim	75	T1037	63 67 65 56 54 66 66 69 71 71 71 66 78 88 86 74 69 73 76 79 84 94 84 66 84 70 74 78 76 71 66 64 58 50 109
205	6/6	Art. Sim	90	T1039	72 73 71 73 73 72 68 65 71 74 73 76 86 103 86 78 82 84 76 76 71 89 79 84 78 74 70 66 62 58 57 53 48 42 103
205	6/6	Art. Sim	90	T1042	40 48 52 54 55 53 59 62 60 63 58 77 97 65 65 64 62 61 57 62 61 58 62 65 64 62 58 51 47 50 16 77
205	6/6	Art. Sim	120	T1044	47 44 46 39 45 52 55 58 62 63 66 61 59 58 65 66 66 65 66 67 64 58 60 66 63 61 55 54 58 50 44 35 26 76
205	6/6	Art. Sim.	120	T1046	66 63 66 65 66 67 69 71 72 76 76 80 99 80 67 67 68 67 67 71 67 67 69 63 58 55 54 48 42 40 99
205	6/6	Art. Sim.	75	T1318	77 77 78 77 79 74 74 82 83 80 84 84 71 97 80 78 78 71 70 73 71 75 72 67 83 73 72 77 74 72 45 105
205	6/6	Art Sim.	75	T1319	62 61 58 52 49 55 58 62 65 66 58 62 58 66 58 62 61 66 70 65 69 62 61 59 62 66 59 59 54 51 47 44 42 80
205	6/6	Art. Sim.	90	T1321	50 53 53 50 52 53 56 60 67 67 66 66 66 62 57 58 61 62 66 69 65 58 61 63 66 61 60 53 50 45 44 41 80
205	6/6	Art. Sim.	90	T1324	67 70 73 74 75 66 69 70 72 79 79 73 71 74 71 72 73 75 72 71 75 71 71 73 70 69 66 63 57 52 47 38 43 100
205	6/6	Art. Sim.	120	T1326	76 78 77 78 77 72 73 74 76 81 81 74 81 92 85 74 72 74 77 74 79 75 77 85 63 66 60 54 51 47 45 41 41 96
205	6/6	Art. Sim.	120	T1328	62 59 53 53 52 59 65 67 68 68 62 61 66 89 58 55 62 61 62 68 63 57 55 62 72 78 67 58 59 54 53 38 35 77
206	5/10	Art. Sim	45	T592	53 59 65 66 70 73 74 78 72 72 77 67 57 57 75 52 53 55 51 51 51 53 50 44 47 41 45 46 49 40 55 27 29 17 87
206	5/25	Art. Sim	120	T522	69 72 76 77 78 79 77 82 79 85 75 74 73 52 58 77 55 75 71 74 72 52 49 51 51 47 50 55 57 44 40 36 55 12 85
206	5/25	Art. Sim	120	T528	61 68 72 76 79 81 82 84 78 81 88 62 72 76 66 53 62 84 62 61 57 56 54 60 63 55 53 57 57 44 40 34 22 20 90
206	5/30	Art. Sim	150	T1054	41 41 41 41 48 55 60 63 65 65 57 54 66 61 46 54 52 54 61 63 49 62 52 58 61 58 51 47 38 31 27 16 74
207	6/7	Art. Sim	30	T1835	82 84 87 90 91 91 89 85 86 87 85 82 79 79 87 77 85 73 74 71 71 77 74 73 75 71 69 69 68 65 64 56 21 99
207	6/7	Art. Sim	30	T1836	76 79 79 82 83 81 77 82 84 84 88 84 83 83 77 85 83 84 77 75 76 70 84 63 63 71 66 66 57 60 64 50 102
207	6/7	Art. Sim	60	T1838	75 79 82 84 86 86 86 86 88 86 87 84 79 83 84 87 85 83 73 72 76 79 78 84 77 71 61 64 66 69 58 50 46 41 103

Note: The following is a large data table printed sideways on the page. Each row below is one record (read vertically in the original). The "Data" column lists the numeric series for that record, read from the top of the column down to the value adjacent to the test number; blank cells are shown as "—".

ID	Date	Type	Dur	Test	Data (top → bottom)
207	6/7	Art. Sim	60	T1840	98, —, 43, —, 46, 55, 50, 64, 65, 61, 69, 67, 66, 67, 64, 67, 71, 70, 77, 75, 82, 85, 85, 86, 88, 89, 89, 89, 88, 87, 86, 83, 80, 76
207	6/7	Art. Sim	90	T1842	94, —, 37, —, 34, 43, 44, 55, 58, 57, 60, 62, 60, 61, 60, 61, 60, 47, 58, 63, 64, 76, 82, 86, 82, 83, 86, 84, 86, 79, 81, 80, 79, 76
207	6/7	Art. Sim	90	T1844	98, —, —, —, 40, 40, 0, 48, 53, 49, 58, 61, 57, 64, 52, 62, 52, 50, 64, 67, 76, 94, 90, 90, 84, 87, 87, 84, 79, 78, 81, 80, 78, 75
216	6/1	Art. Sim.	90	T1420	79, 24, 42, 52, 56, 60, 61, 64, 66, 68, 68, 66, 67, 66, 66, 66, 63, 59, 60, 61, 62, 66, 67, 63, 68, 67, 66, 62, 67, 68, 71, 70, 41, —
216	6/1	Art. Sim.	90	T1421	100, 38, 40, 42, 45, 48, 51, 54, 58, 57, 66, 66, 64, 66, 66, 72, 75, 85, 77, 75, 77, 62, 66, 67, 68, 67, 70, 72, 76, 74, 70, 66, 71, 64
216	6/1	Art. Sim.	120	T1423	96, 36, 39, 42, 44, 50, 54, 57, 60, 59, 66, 63, 59, 64, 69, 69, 72, 80, 75, 47, 73, 73, 95, 91, 88, 80, 81, 70, 72, 77, 76, 69, 71, 62
216	6/1	Art. Sim.	120	T1426	77, 17, 34, 45, 50, 54, 57, 58, 61, 57, 64, 61, 65, 61, 64, 64, 69, 53, 47, 57, 58, 52, 66, 64, 66, 70, 69, 71, 71, 45, 46, 45, —
216	6/1	Art. Sim.	90	T1454	73, 29, 39, 44, 49, 52, 54, 57, 58, 58, 63, 58, 63, 63, 63, 61, 64, 55, 57, 59, 57, 57, 59, 58, 54, 54, 54, 46, 49, 45, 48, 45
216	6/1	Art. Sim.	90	T1455	95, 31, 33, 37, 44, 49, 46, 47, 50, 57, 61, 50, 62, 64, 61, 63, 68, 70, 67, 71, 75, 93, 88, 79, 73, 76, 74, 68, 74, 76, 76, 74, 71
216	6/1	Art. Sim.	120	T1457	94, 30, 33, 35, 40, 44, 42, 43, 47, 57, 58, 57, 59, 58, 57, 59, 59, 54, 54, 56, 54, 93, 84, 75, 73, 69, 71, 72, 68, 71, 72, 67, 70, 52
216	6/1	Art. Sim.	120	T1460	71, 17, 30, 37, 43, 48, 52, 55, 60, 62, 63, 60, 63, 59, 58, 59, 52, 50, 54, 56, 54, 58, 55, 56, 46, 52, 48, 50, 54, 37, 36, 33
218	6/8	Art. Sim	30	T1604	90, —, 54, 64, 68, 72, 76, 74, 73, 70, 73, 68, 70, 70, 75, 71, 72, 69, 74, 73, 80, 78, 82, 78, 79, 78, 77, 77, 79, 77, 79
218	6/8	Art. Sim.	30	T1605	103, 37, 60, 56, 57, 68, 69, 71, 76, 74, 71, 65, 76, 86, 70, 71, 72, 69, 81, 83, 95, 101, 87, 89, 89, 87, 78, 72, 81, 78, 79, 78, 79, 73
218	6/8	Art. Sim	60	T1607	99, 29, 48, 58, 61, 66, 63, 65, 68, 69, 69, 68, 68, 82, 79, 68, 75, 79, 82, 80, 85, 94, 84, 85, 86, 84, 74, 76, 78, 84, 80, 76, 69
218	6/8	Art. Sim	60	T1609	82, —, 46, 41, 53, 50, 64, 66, 67, 67, 64, 65, 64, 54, 66, 67, 66, 54, 59, 67, 59, 74, 69, 66, 68, 72, 68, 65, 66, 68, 65
218	6/8	Art. Sim	90	T1611	77, —, —, 41, 51, 60, 55, 59, 61, 64, 63, 62, 63, 58, 63, 65, 68, 57, 55, 57, 58, 57, 54, 62, 54, 56, 58, 60, 61, 65, 56, 60
218	6/8	Art. Sim	90	T1614	95, —, 34, —, 43, 44, 49, 57, 59, 59, 59, 58, 63, 76, 71, 75, 75, 71, 74, 78, 78, 82, 78, 82, 79, 87, 87, 85, 87, 84, 78, 76, 78, 71
221	5/18	Art. Sim	30	T985	89, 37, 60, 70, 70, 73, 73, 74, 78, 75, 76, 82, 79, 76, 74, 68, 69, 72, 74, 84, 95, 102, 83, 76, 80, 84, 75, 67, 62, 61, 59, 59
221	5/22	Art. Sim.	60	T1164	81, 29, 48, 58, 61, 60, 63, 66, 66, 65, 68, 65, 66, 68, 68, 61, 58, 57, 69, 80, 79, 103, 84, 74, 76, 65, 71, 67, 54, 50, 54, 52, 49, 42
221	5/24	Art. Sim	45	T1011	80, —, 48, 57, 60, 63, 65, 64, 66, 64, 65, 65, 69, 69, 64, 61, 58, 53, 58, 73, 62, 64, 67, 62, 68, 66, 57, 55, 56, 50, 61
221	6/23	Gren. Sim	30	T1370	98, 39, 67, 75, 76, 77, 79, 81, 81, 77, 81, 80, 78, 82, 76, 76, 78, 55, 54, 62, 64, 67, 69, 71, 73, 82, 83, 80, 78, 66, 68, 66, 63, 64
221	6/23	Gren. Sim	30	T1371	107, 39, 64, 72, 74, 79, 80, 81, 86, 84, 85, 84, 92, 90, 78, 76, 77, 81, 78, 80, 85, 88, 89, 89, 84, 86, 90, 82, 84, 78, 88, 84, 86, 73
221	6/23	Gren. Sim	60	T1372	108, 45, 60, 64, 65, 70, 77, 74, 81, 83, 81, 80, 87, 80, 73, 76, 74, 67, 69, 75, 84, 103, 105, 79, 80, 84, 76, 74, 74, 75, 72, 71, 72, 69
221	6/23	Gren. Sim	60	T1374	92, 47, 63, 70, 73, 74, 76, 77, 79, 69, 78, 74, 75, 73, 76, 73, 79, 81, 84, 84, 82, 84, 82, 87, 84, 80, 78, 76, 80, 72, 79, 78, 74, 49
222	6/8	Art. Sim	30	T1883	99, —, 50, 55, 63, 67, 66, 67, 69, 67, 68, 66, 67, 68, 69, 65, 62, 58, 71, 88, 89, 91, 86, 88, 86, 86, 84, 84, 83, 81, 86, 79
222	6/8	Art. Sim	15	T1884	102, 39, 58, 66, 69, 71, 74, 74, 77, 74, 76, 68, 74, 74, 76, 64, 67, 69, 72, 78, 88, 102, 89, 90, 94, 91, 90, 87, 90, 82, 88, 82
222	6/8	Art. Sim	30	T1885	108, 45, 64, 71, 74, 74, 74, 74, 74, 77, 76, 74, 72, 73, 72, 66, 66, 74, 72, 79, 80, 106, 105, 84, 90, 101, 84, 80, 82, 80, 82, 80
222	6/8	Art. Sim	15	T1886	107, 47, 65, 71, 68, 69, 63, 64, 61, 67, 78, 74, 79, 79, 75, 58, 57, 69, 80, 84, 84, 105, 99, 92, 92, 101, 85, 75, 79, 78, 68
222	6/8	Art. Sim	60	T1887	105, —, 47, 43, 49, 53, 56, 61, 63, 68, 69, 63, 78, 70, 72, 69, 72, 72, 80, 80, 83, 102, 77, 87, 82, 87, 84, 78, 84, 78, 81, 80, 78
222	6/8	Art. Sim	60	T1890	97, —, —, 51, 52, 57, 58, 58, 66, 69, 66, 66, 68, 68, 67, 67, 68, 69, 72, 81, 78, 78, 86, 82, 87, 88, 88, 77, 79, 79, 79, 77, 75
227	4/25	Art. Sim	30	T992	101, 38, 47, 52, 57, 62, 66, 69, 74, 71, 74, 74, 73, 74, 73, 71, 74, 75, 83, 86, 83, 86, 88, 84, 81, 89, 89, 91, 92, 92, 93, 88, 85, 82

Seq	Date	Type	Val	ID	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	D21	D22	D23	D24	D25	D26	D27	D28	D29	D30	D31	D32	D33	D34
227	6/15	Art. Sim.	60	T1496	57	71	77	79	80	82	84	86	84	85	86	92	97	89	76	77	82	78	74	72	69	66	65	63	59	54	53	52	50	46	41	34	32	100
227	6/15	Art. Sim.	60	T1498	56	48	44	58	62	66	69	69	74	72	74	67	69	67	66	62	62	68	68	68	68	67	65	63	61	60	57	48	24					82
227	6/15	Art. Sim.	30	T1500	53	62	56	61	66	70	73	77	81	79	82	83	84	81	82	81	79	75	80	80	81	82	78	78	75	74	73	75	74	60	65	73	38	94
227	6/15	Art. Sim.	30	T1501	66	68	71	71	74	74	78	81	85	83	81	80	91	80	85	86	83	82	85	81	80	79	83	77	77	74	71	61	59	57	54	50	47	105
227	6/15	Art. Sim.	30	T1502	69	76	78	82	81	74	82	78	81	87	90	92	100	103	81	86	82	84	91	79	76	71	74	94	84	81	80	67	55	58	50	53		106
227	6/15	Art. Sim.	30	T1503	70			77	70	61	74	80	82	83	75	83	100	80	72	75	74	70	84	80	75	76	78	82	73	66	66	54	70	68	67	56		91
227	6/15	Art. Sim.	60	T1504	61	55		64	68	69	70	73	74	74	71	74	83	65	61	64	64	62	65	66	71	70	63	72	62	60	54	58	58	60	56	47		83
227	6/15	Art. Sim.	60	T1506	65	72	75	79	86	88	85	86	89	84	78	98	97	79	84	83	78	79	77	67	64	66	65	58	48	49	46	50	62	60	45	40		102
228	6/7	Art. Sim	90	T1534		64	62	65	58	67	64	66	63	61	60	70	68	61	64	60	57	61	61	60	64	65	66	63	66	55	54	44	49	46	37	38		78
228	6/7	Art. Sim	90	T1536	69	71	75	78	80	81	82	83	86	88	89	89	87	63	61	74	65	67	81	62	58	63	66	81	62	56	59	59	41	40	41			95
228	6/7	Art. Sim	120	T1538	72	76	79	82	83	86	85	82	77	83	86	84	83	63	62	64	60	57	79	64	51	51	53	80	54	54	58	50	33					93
228	6/7	Art. Sim	150	T1540	56	60	59	78	80	79	77	77	67	75	81	78	77	60	54	60	60	55	61	53	51	51	54	68	46	47	48			40				87
228	6/7	Art. Sim	120	T1542	56	51		62	65	58	67	62	61	54	61	61	68	58	54	64	58	53	61	57	55	58	52	59	56	52	46	52	36	30				72
228	6/7	Art. Sim	150	T1544	53	55		53	55	57	57	54	55	62	62	0	54	52	44	55	61	42	55	55	53	54	46	49	49	43	50	54	39	36	39	33		68
228	6/7	Art. Sim	90	T1547	64			64	62	65	70	70	73	74	70	73	64	62	66	60	63	69	69	69	67	67	69	70	62	62	62	62	59	59	54	43	34	82
228	6/7	Art. Sim	90	T1549	58	78	80	82	81	80	83	81	84	84	84	48	49	54	51	52	51	53	53	55	53	48	51	53	42	59	60	56	31					102
228	6/7	Art. Sim	120	T1550	75	78	81	80	81	80	84	78	85	88	87	79	78	70	55	60	52	49	55	55	56	54	46	43	0	0	39	34						92
228	6/7	Art. Sim	150	T1552	71	73	75	78	82	75	83	86	81	84	81	47	85	52	55	52	51	53	51	56	59	57	65	46	39	41	38	39	33	36			31	93
228	6/7	Art. Sim	120	T1554	59		54		58	62	59	63	62	67	62	54	63	55	52	55	53	54	55	57	63	59	62	51	44	38	41	34	35	33				72
228	6/7	Art. Sim	150	T1556	56			60	60	56	66	66	64	64	61	62	73	55	51	62	58	53	51	51	64	53	56	61	62	59	49	58	50	35	33			72
232	5/10	Art. Sim	60	T1139	56	50	87	89	89	86	66	83	80	81	82	79	73	75	86	83	65	65	64	64	65	66	66	66	58	54	56	54	50	52	61	61	25	97
232	6/13	Art. Sim	30	T1976	83	66	76	89	87	85	66	77	82	84	85	82	88	82	74	83	79	81	94	82	88	75	70	66	69	56	64	63	54	50	60	51		101
232	6/13	Art. Sim	30	T1977	69	66	76	79	91	87	86	81	87	89	89	94	111	88	93	84	85	99	86	88	84	86	83	71	80	74	73	71	68	64	61	48		111
232	6/13	Art. Sim	60	T1978	73	76	79	84	89	86	88	79	83	88	86	86	98	83	86	82	81	78	78	71	80	73	70	68	58	63	60	68	54	54	61	46		101
232	6/13	Art. Sim	60	T1979	75	76	78	79	84	87	90	84	84	89	86	70	72	71	71	72	68	72	71	75	67	70	71	68	64	65	61	64	56	52	52	43		97
232	6/13	Art. Sim	30	T1980	81	86	88	90	86	90	88	86	89	90	90	80	85	86	77	89	80	80	82	75	74	74	74	69	69	71	69	66	64	58				100
232	6/13	Art. Sim	30	T1981	80	81	82	86	82	83	84	81	84	83	84	87	93	86	77	76	88	87	81	76	77	81	74	65	68	67	76	64	74	56	63			108
232	6/13	Art. Sim	60	T1982	70	73	77	78	80	85	84	82	83	85	86	78	84	78	75	77	84	80	96	91	104	95	79	69	78	59	74	56	53	44				106
232	6/13	Art. Sim	60	T1983	76	80	83	86	89	90	91	79	81	90	90	69	68	67	78	86	88	84	74	86	78	79	69	65	67	63	61	54	43	40	44			100
295	5/19	Art. Sim.	90	T1151	67	72	75	79	82	84	85	84	82	78	73	56	58	58	62	56	58	56	59	63	61	62	61	56	58	59	56	54	50	46	39	31	19	92
295	5/19	Art. Sim.	90	T1152	53	57	59	58	52	56	51	54	52	46	57	40	47	44	27	42	35	42	0	41	-237	38	36	36	0	0	34	0	26	19		16		67

ID	Date	Type		T#																																			
295	5/23	Art. Sim	120	T989	73	13	33	43	51	53	55	57	57	59	62	61	62	59	58	57	53	48	43	45	45	53	62	64	64	61	60	61	60	57	53	48	43	38	39
295	5/25	Art. Sim.	30	T1110	92	37	62	70	72	74	74	75	77	76	77	76	76	76	78	76	76	76	77	74	77	82	86	81	84	76	77	77	72	66	52	58	50	61	
296	6/7	Art. Sim	15	T1558	95	49	62	70	73	75	72	78	78	76	83	79	78	79	77	74	77	82	85	83	85	81	81	85	87	84	82	79	77			70	73	58	
296	6/7	Art. Sim	30	T1559	88			61	67	64	64	71	74	72	73	74	74	73	75	71	74	74	71	78	79	74	74	76	68	73	77	0	74	78			75		67
296	6/7	Art. Sim	15	T1560	106		68	73	72	72	77	81	77	79	86	83	83	85	87	88	92	85	85	88	90	105	94	92	91	87	88	85	84	84	80	76	75	76	67
296	6/7	Art. Sim	30	T1561	107		57	58	59	64	67	69	72	73	76	79	81	84	86	87	94	86	84	86	91	107	93	83	71	78	80	78	80	77	77	77	75	80	80
296	6/7	Art. Sim	60	T1562	105		46	48	50	56	59	64	66	66	68	69	72	76	76	79	87	81	77	79	87	105	92	82	75	72	74	78	74	77	74	73	73	74	74
296	6/7	Art. Sim	60	T1565	80				53	58	57	65	67	64	68	68	67	66	66	63	64	64	49	63	65	68	67	72	0	65	73	64	62				64		65
296	6/7	Art. Sim	15	T1570	94		58	69	70	74	75	76	77	77	80	78	76	76	77	81	81	83	75	81	84	82	80	83	83	82	85	80	80	80			73		73
296	6/7	Art. Sim	30	T1571	91		52	61	64	70	67	72	74	71	75	76	73	73	74	71	74	74	75	74	78	74	80	82	83	82	78	74					76		
296	6/7	Art. Sim	15	T1572	106		49	58	55	64	65	72	70	66	78	77	76	80	81	84	84	85	91	84	85	89	102	102	92	90	89	87	73	85	85	81	76	83	81
296	6/7	Art. Sim	30	T1573	108			55	54	55	66	67	69	66	72	76	77	81	82	83	85	83	93	84	84	87	101	106	93	89	88	86	87	85	85	80		80	70
296	6/7	Art. Sim	60	T1576	104			55	47	51	54	59	61	63	66	69	71	74	75	76	79	80	89	79	78	82	99	102	89	85	82	80	77	77	77	77	72	71	72
296	6/7	Art. Sim	60	T1579	83	48	39	50	59	63	62	66	70	71	72	71	71	71	67	66	65	66	58	65	69	68	68	74	60	64	69	64	60	66	66	66	66	60	63
294/1766/23		Gren. Sim	30	T1761	102	48	67	75	78	80	81	82	83	84	85	85	85	84	84	84	86	87	88	90	94	92	93	93	90	88	83	86	86	84	85	83	81	81	69
294/1766/23		Gren. Sim	30	T1762	107		61	71	72	74	76	77	79	82	82	84	86	87	90	90	89	94	93	94	91	102	101	91	88	86	82	86	85	85	78	76	89	85	81
294/1766/23		Gren. Sim	60	T1763	108	39	64	71	71	73	76	76	80	79	80	84	83	86	89	90	90	92	93	95	89	104	104	93	86	83	83	85	84	80	76	80	85	84	
294/1766/23		Gren. Sim	60	T1765	99	39	57	66	71	72	74	75	77	78	79	80	80	80	79	81	79	82	81	83	85	88	87	92	91	88	83	80	80	77	77	77	76	76	74
294/1766/23		Gren. Sim	30	T1769	99	57	64	66	69	71	73	75	78	78	79	79	80	80	78	78	77	80	81	85	86	87	89	90	88	88	87	85	82	82	82	77	77	82	72
294/1766/23		Gren. Sim	30	T1770	107	69	72	73	74	76	78	79	81	83	84	84	87	89	92	91	94	91	97	87	105	105	94	84	87	80	83	77	85	83	85	81	82	84	87
294/1766/23		Gren. Sim	60	T1771	108	44	52	56	59	62	63	67	73	76	78	80	82	85	89	79	93	88	79	81	90	107	97	87	84	80	82	74	76	88	88	80	69	81	85
294/1766/23		Gren. Sim	60	T1773	97	53	58	61	65	68	70	71	73	74	75	74	75	75	75	76	75	78	80	81	82	84	86	90	87	83	82	83	80	76	78	76	76	63	68
294/1766/23		Gren. Sim	30	T1777	102	66	71	74	77	76	80	81	82	83	84	85	85	85	83	84	84	85	87	91	91	88	95	87	87	88	83	80	81	76	76	81	80	81	78
294/1766/23		Gren. Sim	30	T1778	106	69	71	72	75	76	76	79	82	82	83	85	87	89	89	90	92	90	95	89	100	102	92	87	84	83	85	83	80	80	83	86	83	80	83
294/1766/23		Gren. Sim	60	T1780	106	62	68	70	72	73	71	73	79	81	79	80	82	80	84	83	91	81	82	86	102	103	92	87	83	81	78	74	73	67	72	76	69	60	80
294/1766/23		Gren. Sim	60	T1782	98	53	59	63	66	69	71	73	74	75	75	76	77	76	75	77	76	79	81	80	82	85	85	91	91	89	82	83	82	77	76	76	72	63	72

Table D 3. Summary data for experimental .50 caliber blank fire on Fort Stewart, GA, 2000. RCW response 0 = no visible response, 1 = alert to cavity mouth, and 2 = flush from cavity.

Cluster	Date	Nesting Phase & Day	Event Type	Event Dist. (m)	RCW Resp.	Recovery time (min)	Remarks	Mic Pos.	File #	Spec. #	SEL (dB) at mic Flat	A
2	4-May-00	I-8	50 cal Blank	75	2	2.65		Base	T1060	2	89.0	83.9
2	4-May-00	I-8	50 cal Blank	75	2	2.65		Base	T1060	7	92.8	87.4
2	6-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1030	7	107.9	104.8
2	6-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1032	3	106.3	105.6
2	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1034	3	85.5	85.6
2	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1034	7	87.7	87.9
2	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1035	3	97.4	90.0
2	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1035	7	99.5	92.6
2	6-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1029	3	110.9	105.7
2	6-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1029	8	112.5	107.4
2	6-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1030	3	107.1	103.4
2	6-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1016	8	116.4	106.7
2	6-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1017	4	116.3	107.5
2	6-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1017	7	116.9	108.2
2	6-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1016	4	115.8	106.1
2	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1023	8	108.4	98.8
2	6-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1019	7	106.7	106.2
2	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1021	3	90.3	90.9
2	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1021	7	91.7	92.1
2	6-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1032	8	108.2	107.4
2	6-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1033	3	98.9	98.7
2	6-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1033	7	100.0	99.8
2	6-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1018	4	101.2	101.4
2	6-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1018	8	101.1	101.2
2	6-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1019	3	106.0	105.4
6	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1635	2	102.8	90.6
6	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1635	6	102.1	89.6
6	9-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1637	3	99.6	87.4
6	9-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1639	3	80.3	80.3
6	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1618	2	103.5	94.8
6	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1620	3	102.4	98.6
6	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1620	6	101.8	97.8
6	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1621	3	87.9	88.1
6	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1630	7	90.9	91.2
6	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1632	3	84.7	84.8
6	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1623	3	93.5	94.1
6	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1623	6	92.1	92.5
6	9-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1624	3	83.3	83.6

6	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1632	6	83.7	83.7
6	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1633	3	107.8	95.9
6	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1633	7	109.0	97.0
6	9-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1624	7	82.4	82.5
6	9-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1626	3	98.5	90.0
6	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1630	3	89.3	89.5
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1131	2	89.2	82.7
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1132	1	89.5	84.2
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1132	4	90.2	84.4
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1135	3	89.3	82.0
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1136	2	90.6	82.5
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1136	18	91.3	83.5
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1137	11	94.1	87.9
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1137	25	94.5	87.6
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1133	1	89.2	82.0
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1133	5	89.5	82.2
10	2-May-00	I-5	50 cal Blank	45	0			Base	T1134	3	92.4	85.5
10	5-May-00	I-8	50 cal Blank	45	1			Base	T874	2	88.1	80.0
10	5-May-00	I-8	50 cal Blank	45	1			Base	T875	3	93.1	84.8
10	5-May-00	I-8	50 cal Blank	45	1			Base	T875	6	94.6	86.1
10	5-May-00	I-8	50 cal Blank	45	1			Base	T875	9	96.2	87.7
10	9-May-00	N-1	50 cal Blank	30	0			Base	T1182	4	93.6	93.3
10	9-May-00	N-1	50 cal Blank	30	0			Base	T1182	7	94.8	94.8
10	9-May-00	N-1	50 cal Blank	30	0			Base	T1182	10	94.3	94.0
12	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1648	3	88.5	88.6
12	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1648	7	86.8	86.8
12	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1649	3	99.0	92.0
12	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1649	6	98.0	90.9
12	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1651	3	107.4	97.4
12	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1651	7	105.6	96.8
12	9-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1643	3	109.6	99.5
12	9-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1643	7	107.4	97.1
12	9-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1645	3	95.4	95.7
12	9-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1645	7	93.2	93.5
12	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1646	2	82.5	82.8
12	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1646	6	82.4	82.4
23	16-May-00	I-6	50 cal Blank	60	0			Base	T881	3	95.3	89.0
23	16-May-00	I-6	50 cal Blank	60	0			Base	T881	5	95.6	88.6
23	16-May-00	I-6	50 cal Blank	60	0			Base	T881	7	93.5	86.5
23	2-Jun-00	I-4	50 cal Blank	90	0			Base	T1130	3	89.6	81.5
23	2-Jun-00	I-4	50 cal Blank	90	0			Base	T1130	7	89.5	81.4
23	2-Jun-00	I-4	50 cal Blank	90	0			Base	T1130	11	90.1	81.9

23	6-Jun-00	I-7	50 cal Blank	60	2	4.683		Base	T587	15	91.8	84.4
32	9-May-00	I-5	50 cal Blank	45	2	2.117		Base	T1106	3	91.0	91.5
32	9-May-00	I-5	50 cal Blank	45	2	2.117		Base	T1106	6	92.5	93.1
32	9-May-00	I-5	50 cal Blank	45	2	2.117		Base	T1106	9	94.1	94.6
32	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1756	2	110.9	99.5
32	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1756	6	113.9	102.5
32	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1758	2	99.3	95.2
32	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1758	6	101.9	97.5
32	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1759	3	94.5	89.7
32	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1759	8	85.4	79.8
32	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1759	9	96.4	91.1
32	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1760	3	110.3	98.3
32	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1760	9	112.2	100.3
36	10-May-00	I-8	50 cal Blank	75	2	2.317		Base	T788	3	90.1	84.7
36	10-May-00	I-8	50 cal Blank	75	2	2.317		Base	T788	7	90.6	85.2
36	10-May-00	I-8	50 cal Blank	75	2	2.317		Base	T788	10	91.4	86.8
36	12-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Base	T1927	3	91.1	85.0
36	12-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Cav	T1929	3	100.3	92.0
36	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1931	2	95.5	86.9
36	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1931	6	97.2	88.3
36	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1932	2	88.1	83.6
36	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1932	6	89.9	85.7
36	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1935	2	88.1	81.2
36	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1935	6	88.9	81.9
36	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1937	2	93.2	84.9
36	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1937	6	93.8	85.3
36	12-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Cav	T1940	3	97.0	90.3
36	12-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Cav	T1940	7	97.4	91.2
36	12-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Base	T1942	3	91.1	84.1
36	12-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Base	T1942	7	91.6	84.8
36	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1944	3	100.2	93.9
36	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1944	6	101.6	95.3
36	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1946	3	105.4	97.0
36	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1946	7	106.3	98.7
42	25-Apr-00	I-7	50 cal Blank	90	2	15.033		Base	T563	4	87.3	83.9
42	25-Apr-00	I-7	50 cal Blank	90	2	15.033		Base	T563	8	88.5	85.0
42	1-May-00	N-2	50 cal Blank	120	0	0		Base	T1079	2	86.1	81.1
42	1-May-00	N-2	50 cal Blank	120	0	0		Base	T1079	7	85.1	80.3
42	1-May-00	N-2	50 cal Blank	120	0	0		Base	T1079	12	85.8	80.5
42	31-May-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1416	3	86.8	76.9
42	31-May-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1416	7	87.9	78.2
42	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1417	3	85.3	84.8

42	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1417	7	85.7	85.0
42	31-May-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1419	3	80.5	80.8
42	31-May-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1419	7	81.7	82.1
42	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1414	3	93.0	81.8
42	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1414	7	93.8	83.1
42	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1406	3	87.6	87.8
42	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1406	7	88.6	88.8
42	31-May-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1408	3	85.7	86.0
42	31-May-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1408	7	86.8	87.0
42	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1409	3	102.2	95.0
42	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1409	6	103.7	96.1
42	31-May-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1411	3	104.8	94.6
42	31-May-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1411	7	105.6	95.6
47	10-May-00	N-1	50 cal Blank	30	2	8.2		Base	T1048	2	96.9	96.6
47	10-May-00	N-1	50 cal Blank	30	2	8.2		Base	T1048	7	98.5	98.0
47	5-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1278	7	113.1	101.6
47	5-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1279	3	102.6	102.1
47	5-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1279	7	105.6	105.0
47	5-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1280	4	98.2	98.1
47	5-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1280	7	97.7	97.6
47	5-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1281	4	93.1	93.2
47	5-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1281	7	93.7	93.9
47	5-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1288	3	114.7	106.6
47	5-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1288	6	115.0	106.8
47	5-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1289	2	113.7	105.8
47	5-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1289	6	114.8	106.9
47	5-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1290	3	112.8	104.6
47	5-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1290	6	112.6	104.2
47	5-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1291	2	104.1	103.8
47	5-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1291	6	105.0	104.7
47	5-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1292	2	100.1	100.2
47	5-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1292	6	100.5	100.5
47	5-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1293	3	95.7	95.7
47	5-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1293	6	94.3	93.9
47	5-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1278	4	112.8	101.4
47	5-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1278	7	109.7	98.0
47	5-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1279	3	102.6	102.1
47	5-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1277	7	114.8	103.8
47	5-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1278	4	112.8	101.4
47	5-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1276	7	115.4	104.7
47	5-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1277	4	115.2	104.0
47	5-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1276	3	112.1	101.6

48	27-Apr-00	I-1	50 cal Blank	30	2	3.517		Base	T1172	4	100.8	94.3
48	27-Apr-00	I-1	50 cal Blank	30	2	3.517		Base	T1172	9	100.8	94.6
48	27-Apr-00	I-1	50 cal Blank	30	2	3.517		Base	T1172	14	92.8	87.1
48	27-Apr-00	I-1	50 cal Blank	30	2	3.517		Base	T1172	24	100.3	94.3
48	4-May-00	I-8	50 cal Blank	60	0			Base	T1007	4	100.0	90.3
48	4-May-00	I-8	50 cal Blank	60	0			Base	T1007	6	97.8	87.9
51	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1751	2	94.7	90.6
51	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1751	6	94.2	89.5
51	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1751	10	93.3	88.8
51	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1752	2	106.8	97.2
51	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1752	6	107.4	97.1
51	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1744	7	94.7	90.6
51	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1747	3	110.3	100.1
51	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1752	10	106.1	96.0
51	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1747	6	112.7	102.8
51	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1749	3	100.2	94.4
51	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1749	6	102.6	96.1
51	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1739	3	99.4	95.7
51	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1739	6	99.6	95.4
51	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1741	2	109.7	99.0
51	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1741	6	110.4	99.6
51	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1743	3	105.7	94.2
51	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1743	7	107.2	95.8
51	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1744	3	93.1	89.1
57	31-May-00	post-fledg	50 cal Blank	75			Extrapolation	Cav	T1395	7	107.9	95.4
57	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1396	3	81.9	81.7
57	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1396	8	84.4	84.1
57	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1397	3	95.6	85.5
57	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1397	7	98.3	88.4
57	31-May-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1399	3	88.0	86.6
57	31-May-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1399	7	87.6	86.2
57	31-May-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1400	4	85.5	84.1
57	31-May-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1400	8	86.0	84.7
57	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1402	3	85.1	84.2
57	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1402	6	85.5	84.4
57	31-May-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1394	3	107.7	95.4
57	31-May-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1394	6	107.6	94.7
57	31-May-00	post-fledg	50 cal Blank	75			Extrapolation	Base	T1395	4	107.1	94.6
57	31-May-00	post-fledg	50 cal Blank	75			Extrapolation	Base	T1385	3	96.9	86.2
57	31-May-00	post-fledg	50 cal Blank	75			Extrapolation	Cav	T1385	5	96.1	85.8
57	31-May-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1387	3	87.8	86.8
57	31-May-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1384	3	97.4	86.7

57	31-May-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1384	5	96.7	86.5
57	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1403	3	103.6	91.2
57	31-May-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1403	6	104.6	92.2
57	14-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T912	6	97.6	95.0
57	14-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T913	3	107.1	97.8
57	14-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T913	6	108.7	99.4
57	14-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T912	3	96.0	93.8
60	17-May-00	I-4	50 cal Blank	30	2	7.383		Base	T822	2	100.6	93.7
60	17-May-00	I-4	50 cal Blank	30	2	7.383		Base	T822	6	105.5	98.1
60	22-May-00	I-9	50 cal Blank	60	2	11.833		Base	T582	7	96.3	86.7
60	22-May-00	I-9	50 cal Blank	60	2	11.833		Base	T582	9	93.0	83.4
60	22-May-00	I-9	50 cal Blank	60	2	11.833		Base	T581	2	83.5	75.6
60	22-May-00	I-9	50 cal Blank	60	2	11.833		Base	T582	3	95.6	86.1
61	23-May-00	I-6	50 cal Blanks	60	2	5.683		Base	T543	4	92.2	87.7
61	23-May-00	I-6	50 cal Blanks	60	2	5.683		Base	T543	8	94.2	89.5
61	23-May-00	I-6	50 cal Blanks	60	2	5.683		Base	T543	12	95.4	90.6
62	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1587	3	85.4	85.6
62	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1587	6	86.6	86.8
62	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1589	4	87.6	87.7
62	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1589	10	88.3	88.4
62	8-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1590	3	80.3	80.6
62	8-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1590	7	79.2	79.3
62	8-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1591	3	100.3	92.5
62	8-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1591	7	99.1	91.2
62	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1594	3	102.0	95.1
62	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1594	7	103.0	95.8
62	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1596	4	98.2	91.2
62	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1596	7	97.0	90.5
62	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1597	3	86.7	86.9
62	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1597	7	87.5	87.6
62	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1599	4	84.1	84.3
62	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1599	7	83.7	83.8
62	8-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1601	3	80.1	80.2
62	8-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1601	6	81.5	81.8
62	8-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1603	3	94.5	86.0
62	8-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1603	6	95.4	86.9
62	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1584	2	112.0	101.9
62	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1584	6	112.0	102.1
62	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1586	4	112.8	103.3
62	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1586	10	113.8	104.5
71	12-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1948	3	102.9	98.3
71	12-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1948	6	103.1	98.6

71	12-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1951	3	106.2	92.8
71	12-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1951	6	106.3	93.3
71	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1953	3	107.1	92.6
71	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1953	7	107.2	92.8
71	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1955	3	102.7	95.7
71	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1955	7	102.7	95.5
71	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1957	3	94.0	86.7
71	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1957	6	93.5	86.0
71	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1958	3	99.2	85.6
71	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1958	6	98.9	83.9
71	12-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1960	3	104.2	99.2
71	12-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1960	6	105.5	101.3
71	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1962	3	101.5	95.8
71	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1962	6	100.4	94.1
71	12-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1964	3	116.0	107.3
71	12-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1964	6	117.4	108.6
71	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1966	3	116.8	107.9
71	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1966	6	115.6	106.8
71	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1968	3	108.4	98.1
71	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1970	3	92.2	85.0
75	11-May-00	I-9	50 cal Blank	60	0			Base	T789	3	95.4	86.5
75	11-May-00	I-9	50 cal Blank	60	0			Base	T789	6	97.2	88.4
75	11-May-00	I-9	50 cal Blank	60	0			Base	T789	9	97.8	88.9
75	18-May-00	N-5	50 cal Blank	15	0			Base	T986	2	103.4	102.8
75	18-May-00	N-5	50 cal Blank	15	0			Base	T986	5	104.7	104.2
75	18-May-00	N-5	50 cal Blank	15	0			Base	T986	9	106.0	105.4
75	9-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1918	3	116.1	107.0
75	9-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1918	6	116.0	107.0
75	9-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1920	3	101.3	96.6
75	9-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1920	6	101.6	97.1
75	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1922	3	94.1	86.2
75	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1922	6	93.2	85.5
75	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1924	3	110.7	100.2
75	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1924	6	109.9	99.3
75	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1925	3	109.9	100.0
75	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1925	7	109.5	99.4
75	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1926	4	92.1	85.2
75	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1926	7	91.7	85.1
79	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1479	3	99.7	100.0
79	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1479	7	97.3	97.7
79	14-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1476	4	107.1	95.1
79	14-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1476	8	105.5	93.3

79	14-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1477	2	109.3	98.0
79	14-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1478	3	115.2	103.3
79	14-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1478	7	112.7	100.8
79	14-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1468	2	94.9	95.2
79	14-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1469	2	108.8	99.1
79	14-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1470	3	105.5	96.2
79	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1471	3	102.9	92.9
79	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1471	8	103.4	93.4
79	14-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1472	3	92.7	93.1
79	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1473	4	85.9	86.3
79	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1473	8	86.8	87.2
79	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1474	4	85.4	85.8
79	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1474	8	83.8	84.2
79	14-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1475	3	91.2	91.7
80	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T922	3	101.4	91.9
80	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T922	8	100.1	90.2
80	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T923	3	88.6	83.6
80	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T923	8	85.6	80.6
80	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T926	3	105.5	96.1
80	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T926	7	105.5	95.8
80	15-Jun-00	post-fledg	50 cal Blank	75				Extrapolation	Cav	T927	4	106.8	96.5
80	15-Jun-00	post-fledg	50 cal Blank	75				Extrapolation	Cav	T927	9	107.2	97.0
80	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T928	2	92.9	87.8
80	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T928	7	92.2	87.2
80	15-Jun-00	post-fledg	50 cal Blank	75				Extrapolation	Base	T929	4	90.2	84.6
80	15-Jun-00	post-fledg	50 cal Blank	75				Extrapolation	Base	T929	9	91.3	85.5
80	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T930	4	89.6	83.4
80	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T930	7	87.7	81.3
80	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T931	4	102.0	92.0
80	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T931	8	101.1	91.0
81	2-Jun-00	I-6	50 cal Blank	60	0				Base	T1464	11	90.5	91.3
81	2-Jun-00	I-6	50 cal Blank	60	0				Base	T1464	18	89.5	90.3
81	2-Jun-00	I-6	50 cal Blank	60	0				Base	T1464	4	88.7	89.3
81	5-Jun-00	I-9	50 cal Blank	30	0				Base	T1006	4	97.8	98.2
81	5-Jun-00	I-9	50 cal Blank	30	0				Base	T1006	10	97.6	98.0
83	1-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1805	3	112.8	100.8
83	1-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1805	10	112.6	100.5
83	1-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1807	3	102.8	99.0
83	1-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1807	10	102.5	97.9
83	1-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1809	4	98.9	90.8
83	1-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1809	8	97.2	89.6
83	1-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1810	4	111.7	98.4

83	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1810	9	109.9	96.8
83	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1813	4	112.6	102.5
83	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1813	8	114.1	104.2
83	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1814	8	104.5	92.7
83	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1815	4	101.7	95.1
83	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1815	8	103.2	96.0
83	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1816	3	97.6	82.8
83	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1817	4	94.3	87.3
83	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1817	9	96.3	88.9
83	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1818	5	109.9	98.5
83	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1818	9	111.6	100.4
86	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1298	2	87.5	87.6
86	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1300	2	83.2	83.9
86	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1300	5	86.0	86.6
86	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1302	3	78.2	78.6
86	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1302	7	78.4	78.8
86	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1303	2	100.8	90.2
86	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1303	6	103.0	92.6
86	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1305	3	99.5	88.6
86	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1305	7	100.8	89.9
86	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1310	2	103.0	96.8
86	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1310	6	103.8	97.6
86	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1312	3	107.5	102.0
86	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1312	7	109.2	103.6
86	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1313	2	78.0	78.4
86	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1313	6	79.1	79.5
86	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1315	3	85.1	85.0
86	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1315	7	87.0	86.8
86	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1316	2	80.7	80.8
86	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1316	6	83.7	83.8
86	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1317	3	102.2	96.4
86	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1317	6	104.2	98.4
86	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1296	2	108.5	98.7
86	6-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1296	4	108.8	99.1
87	17-May-00	I-7	50 cal Blanks	30	2	0.983		Base	T489	5	97.3	96.4
87	17-May-00	I-7	50 cal Blanks	30	2	0.983		Base	T489	9	96.8	95.9
87	17-May-00	I-7	50 cal Blanks	30	2	0.983		Base	T489	13	98.2	97.1
88	12-May-00	I-8	50 cal Blanks	60	2	4.817		Base	T321	2	84.4	84.7
88	12-May-00	I-8	50 cal Blanks	60	2	4.817		Base	T321	5	85.4	85.7
88	12-May-00	I-8	50 cal Blanks	60	2	4.817		Base	T321	7	86.1	86.3
88	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1715	3	95.9	96.2
88	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1715	7	97.3	97.7

88	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1717	3	111.5	100.6
88	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1717	7	112.8	101.9
88	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1718	3	109.3	97.9
88	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1718	7	109.6	98.1
88	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1719	3	90.2	90.4
88	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1719	7	90.6	90.8
107	4-May-00	I-2	50 cal Blank	45	2	2.3		Base	T1000	2	93.7	85.7
107	4-May-00	I-2	50 cal Blank	45	2	2.3		Base	T1000	5	93.9	86.3
107	4-May-00	I-2	50 cal Blank	45	2	2.3		Base	T1000	7	89.8	82.0
107	8-May-00	I-6	50 cal Blank	90	0			Base	T823	4	91.1	82.4
107	8-May-00	I-6	50 cal Blank	90	0			Base	T823	7	92.9	84.1
107	8-May-00	I-6	50 cal Blank	90	0			Base	T823	10	93.9	85.3
107	11-May-00	I-9	50 cal Blanks	60	2	4.45		Base	T533	8	93.8	88.8
107	15-May-00	N-2	50 cal Blank	90	0			Base	T1081	12	81.7	82.2
107	15-May-00	N-2	50 cal Blank	90	0			Base	T1081	7	80.5	80.8
107	15-May-00	N-2	50 cal Blank	90	0			Base	T1081	9	80.9	81.5
107	9-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1906	3	95.8	92.4
107	9-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1906	7	96.0	92.3
107	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1908	3	91.4	87.2
107	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1908	7	94.3	90.5
107	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1910	3	106.5	99.3
107	9-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1910	7	109.2	101.7
107	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1911	3	98.3	92.0
107	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1911	7	99.2	92.9
107	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1912	3	87.6	83.6
107	9-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1912	7	88.4	84.4
107	9-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1904	3	107.8	99.8
107	9-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1904	7	107.8	99.7
120	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1725	2	113.1	103.9
120	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1725	7	114.5	105.5
120	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1725	13	111.7	102.6
120	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1727	2	99.5	95.4
120	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1727	7	101.7	97.5
120	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1727	13	98.6	94.1
120	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1729	2	101.7	97.0
120	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1729	7	105.6	100.7
120	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1730	2	105.0	95.6
120	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1730	7	108.7	99.0
120	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1731	2	99.2	90.1
120	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1731	5	99.5	90.5
120	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1732	2	93.9	87.7
120	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1732	5	94.1	88.1

126	13-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1693	3	112.4	101.9
126	13-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1693	8	111.2	100.4
126	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1694	4	109.2	99.1
126	13-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1696	3	103.4	103.5
126	13-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1696	8	101.9	101.7
126	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1697	4	96.5	96.7
126	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1698	4	88.7	88.7
126	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1698	7	88.5	88.6
126	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1698	10	87.2	87.1
126	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1699	1	104.4	93.0
126	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1699	5	104.6	92.8
126	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1699	8	105.1	93.2
126	13-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1705	2	111.8	103.8
126	13-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1705	6	109.6	101.9
126	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1706	2	108.0	98.6
126	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1706	6	115.6	106.4
126	13-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1708	2	103.8	103.9
126	13-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1708	6	101.4	101.4
126	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1709	2	92.0	92.0
126	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1709	6	100.5	100.8
126	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1710	3	89.7	90.0
126	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1710	7	90.0	90.2
126	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1711	3	110.8	100.3
126	13-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1711	7	111.8	101.4
133	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T914	2	99.2	95.4
133	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T914	5	99.6	94.8
133	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T915	2	111.1	98.2
133	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T915	5	111.5	98.7
133	14-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T916	1	107.7	93.9
133	14-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T916	5	108.0	94.3
133	14-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T917	2	92.9	85.2
133	14-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T917	5	93.8	87.4
133	14-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T918	3	87.0	80.6
133	14-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T918	7	87.5	81.2
133	14-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T919	3	101.2	87.7
133	14-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T919	7	102.3	88.6
137	31-May-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1796	4	98.2	88.7
137	31-May-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1796	9	98.2	88.7
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1797	4	112.1	103.0
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1797	9	114.2	105.3
137	31-May-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1798	4	113.6	104.6
137	31-May-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1798	9	113.2	104.3

137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1785	4	98.4	96.2
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1785	9	98.4	95.6
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1786	3	99.3	97.3
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1786	8	100.7	98.3
137	31-May-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1787	3	96.5	92.7
137	31-May-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1787	7	96.5	93.4
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1788	4	105.5	94.9
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1788	9	105.7	94.8
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1789	3	105.7	95.7
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1789	8	107.4	96.8
137	31-May-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1790	3	105.1	93.3
137	31-May-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1790	7	104.5	93.5
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1795	4	98.6	91.8
137	31-May-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1795	9	100.8	94.0
139	11-May-00	I-7	50 cal Blanks	90	0			Base	T509	2	89.3	82.3
139	11-May-00	I-7	50 cal Blanks	90	0			Base	T509	5	88.9	81.4
139	11-May-00	I-7	50 cal Blanks	90	0			Base	T509	9	91.8	84.4
139	15-May-00	N-0	50 cal Blank	60	2	3.87		Base	T1722	7	94.4	86.2
139	15-May-00	N-0	50 cal Blank	60	2	3.87		Base	T1722	10	96.0	88.3
139	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1654	9	114.0	104.4
139	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1656	4	96.4	96.2
139	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1656	9	97.1	96.8
139	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1658	3	91.3	91.4
139	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1658	7	89.9	90.0
139	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1660	3	85.5	85.3
139	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1660	7	82.3	81.9
139	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1661	3	112.9	102.6
139	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1661	8	115.4	105.1
139	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1663	3	111.4	100.4
139	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1663	8	108.9	97.8
139	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1666	4	109.0	100.8
139	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1668	4	96.1	96.2
139	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1670	4	90.3	90.6
139	12-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1654	4	113.1	103.2
139	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1670	9	88.6	88.9
139	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1672	4	84.0	84.2
139	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1672	10	85.5	85.7
139	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1673	4	106.8	97.6
139	12-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1673	9	104.1	93.2
139	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1675	4	101.0	91.9
139	12-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1675	9	102.0	92.8
148	25-Apr-00	I-2	50 cal Blank	45	0			Base	T972	2	101.1	95.1

148	25-Apr-00	I-2	50 cal Blank	45	0				Base	T972	8	100.1	93.4
148	1-May-00	I-8	50 cal Blank	30	1				Base	T1369	2	103.0	96.2
148	1-May-00	I-8	50 cal Blank	30	1				Base	T1369	6	101.3	94.4
148	1-May-00	I-8	50 cal Blank	30	1				Base	T1369	12	104.3	96.6
148	12-Jun-00	post-fledg	50 cal Blank	15				Extrapolation	Cav	T1682	4	115.8	106.0
148	12-Jun-00	post-fledg	50 cal Blank	15				Extrapolation	Cav	T1682	8	113.5	103.3
148	12-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1683	4	115.8	104.7
148	12-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1683	9	108.7	97.6
148	12-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1683	11	114.2	103.2
148	12-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Cav	T1684	3	111.0	100.3
148	12-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Cav	T1684	8	111.8	100.6
148	12-Jun-00	post-fledg	50 cal Blank	15				Extrapolation	Base	T1685	4	102.1	102.3
148	12-Jun-00	post-fledg	50 cal Blank	15				Extrapolation	Base	T1685	8	100.0	100.1
148	12-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1686	4	97.0	97.1
148	12-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1686	9	91.5	91.9
148	12-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1686	11	96.6	97.0
148	12-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Base	T1687	3	92.6	92.8
148	12-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Base	T1687	9	95.5	95.7
159	30-May-00	post-fledg	50 cal Blank	30	0				Base	T893	3	104.4	98.3
159	30-May-00	post-fledg	50 cal Blank	30	0				Base	T894	2	101.9	94.9
159	30-May-00	post-fledg	50 cal Blank	30	0				Base	T894	5	102.1	95.2
159	30-May-00	post-fledg	50 cal Blank	45	0				Base	T895	2	97.6	89.8
159	30-May-00	post-fledg	50 cal Blank	45	0				Base	T895	6	99.1	90.2
159	30-May-00	post-fledg	50 cal Blank	30	0				Cav	T896	4	119.2	108.6
159	30-May-00	post-fledg	50 cal Blank	30	0				Cav	T897	2	116.8	106.0
159	30-May-00	post-fledg	50 cal Blank	30	0				Cav	T897	5	116.2	105.6
159	30-May-00	post-fledg	50 cal Blank	45	0				Cav	T898	2	112.5	101.5
159	30-May-00	post-fledg	50 cal Blank	45	0				Cav	T898	6	112.8	101.8
163	7-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1858	3	92.3	88.1
163	7-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1858	7	92.0	87.8
163	7-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1863	3	111.3	101.0
163	7-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1863	7	112.0	101.6
163	7-Jun-00	post-fledg	50 cal Blank	15				Extrapolation	Base	T1864	2	115.1	105.6
163	7-Jun-00	post-fledg	50 cal Blank	15				Extrapolation	Base	T1864	6	115.0	105.6
163	7-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1866	3	100.6	93.6
163	7-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1866	7	101.0	94.0
163	7-Jun-00	post-fledg	50 cal Blank	15				Extrapolation	Cav	T1867	2	104.3	101.2
163	7-Jun-00	post-fledg	50 cal Blank	15				Extrapolation	Cav	T1867	6	104.2	101.1
163	7-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1869	3	92.9	87.7
163	7-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1869	7	92.7	87.4
163	7-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1870	3	110.7	99.3
163	7-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1870	7	110.1	98.7

163	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1875	3	112.1	103.0
163	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1875	7	112.9	104.2
163	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1876	4	114.6	106.9
163	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1876	8	113.7	105.5
163	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1878	3	100.4	97.6
163	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1878	6	100.8	97.4
163	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1879	4	106.5	104.7
163	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1879	7	105.2	103.2
163	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1881	3	92.0	87.2
163	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1881	7	93.7	88.5
163	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1882	3	107.2	97.4
163	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1882	7	108.6	100.5
163	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1852	4	115.0	105.4
163	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1852	7	116.7	106.9
163	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1854	4	104.1	102.4
163	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1854	7	105.6	104.4
163	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1855	4	102.4	95.8
163	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1855	8	103.9	97.5
163	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1856	4	116.1	105.2
163	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1856	8	117.5	106.6
163	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1857	3	108.9	100.2
163	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1857	7	108.5	99.3
172	12-May-00	I-8	50 cal Blank	30	2	1.9		Base	T1049	3	95.1	94.8
172	12-May-00	I-8	50 cal Blank	30	2	1.9		Base	T1049	6	95.5	94.3
172	12-May-00	I-8	50 cal Blank	30	2	1.9		Base	T1049	8	90.6	67.5
172	16-May-00	N-1	50 cal Blank	60	0			Base	T566	5	86.2	86.1
172	16-May-00	N-1	50 cal Blank	60	0			Base	T566	8	87.6	87.4
172	16-May-00	N-1	50 cal Blank	60	0			Base	T566	11	88.6	88.4
172	14-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1482	4	104.9	94.8
172	14-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1482	8	107.7	97.4
172	14-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1483	3	107.9	98.3
172	14-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1483	10	108.4	99.0
172	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1484	5	112.3	102.5
172	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1484	9	105.6	95.8
172	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1484	12	110.5	100.7
172	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1485	5	97.6	97.8
172	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1485	9	91.4	91.6
172	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1485	12	96.9	97.2
172	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1486	3	100.8	101.1
172	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1486	7	99.9	100.1
172	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1487	4	104.6	95.9
172	14-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1487	8	104.7	96.4

172	14-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1488	3	94.7	89.4
172	14-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1488	7	98.5	93.2
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1489	2	90.2	84.1
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1489	6	89.8	84.2
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1489	9	89.5	83.4
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1489	16	89.9	83.9
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1489	19	93.3	87.4
172	14-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1490	3	89.0	89.5
172	14-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1490	7	92.7	93.2
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1491	2	81.0	81.5
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1491	6	80.8	81.3
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1491	9	80.6	81.1
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1491	16	80.3	80.7
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1491	19	83.8	84.2
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1480	4	83.6	83.8
172	14-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1480	9	86.7	86.9
172	14-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1481	3	90.9	90.9
172	14-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1481	10	92.3	92.3
177	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T932	2	98.5	94.0
177	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T932	14	101.1	96.4
177	15-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Base	T933	2	96.1	92.3
177	15-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Base	T933	8	96.0	91.2
177	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T935	3	108.3	99.5
177	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T935	15	110.5	101.8
177	15-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Cav	T936	2	108.6	100.0
177	15-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Cav	T936	8	108.3	100.2
177	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T938	3	104.0	95.3
177	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T938	8	104.3	95.4
177	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T939	3	93.1	85.5
177	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T939	7	92.7	85.3
177	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T940	2	95.2	88.6
177	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T940	6	95.3	88.5
177	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T941	2	105.7	97.0
177	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T941	6	105.2	96.7
177	15-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Cav	T943	2	109.9	100.9
177	15-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Cav	T943	7	111.3	102.4
177	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T944	2	109.2	100.9
177	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T944	7	111.4	103.0
177	15-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Base	T946	2	99.4	93.3
177	15-Jun-00	post-fledg	50 cal Blank	45				Extrapolation	Base	T946	6	101.1	95.0
177	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T947	2	100.3	96.0
177	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T947	7	102.7	98.1

183	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1443	7	94.7	84.4
183	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1445	3	84.5	84.9
183	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1445	7	86.0	86.5
183	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1447	3	94.9	95.1
183	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1447	7	93.2	93.4
183	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1449	3	103.5	94.4
183	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1449	7	103.0	92.5
183	1-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1452	4	83.3	83.7
183	1-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1452	8	83.9	84.3
183	1-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1453	9	91.7	80.2
183	1-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1453	12	92.4	81.1
183	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1430	3	107.1	97.7
183	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1430	7	107.3	97.8
183	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1432	3	90.2	89.9
183	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1432	7	90.8	90.7
183	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1434	3	86.6	86.8
183	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1434	7	88.5	89.0
183	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1436	3	102.8	94.4
183	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1436	6	103.1	94.6
183	1-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1438	3	101.0	91.2
183	1-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1438	8	100.3	90.7
183	1-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1439	4	85.3	85.7
183	1-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1439	8	85.3	85.7
183	1-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1440	3	81.4	81.9
183	1-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1441	3	89.7	77.8
183	1-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1443	2	93.5	83.4
194	26-Apr-00	I-6	50 cal Blank	30	2	3.817		Base	T1004	3	102.4	94.5
194	26-Apr-00	I-6	50 cal Blank	30	2	3.817		Base	T1004	10	103.9	96.1
194	26-Apr-00	I-6	50 cal Blank	30	2	3.817		Base	T1004	16	102.6	94.8
194	2-May-00	I-1	50 cal Blank	15	2	6.5		Base	T1153	3	95.5	91.1
194	2-May-00	I-1	50 cal Blank	15	2	6.5		Base	T1162	3	100.2	93.8
194	2-May-00	I-1	50 cal Blank	15	2	6.5		Base	T1162	7	103.7	97.2
194	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1826	10	100.7	94.0
194	1-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1827	4	103.3	98.9
194	1-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1827	9	103.3	98.6
194	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1828	4	98.7	92.7
194	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1828	9	99.1	92.4
194	1-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1829	4	113.9	105.2
194	1-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1829	9	113.7	105.2
194	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1830	4	113.1	104.0
194	1-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1823	4	115.8	102.9
194	1-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1823	9	115.8	102.9

194	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1824	4	113.9	99.3
194	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1824	10	113.9	99.5
194	1-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1825	3	104.1	97.9
194	1-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1825	8	104.0	98.5
194	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1826	4	100.4	94.8
194	1-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1830	9	113.2	104.0
197	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1984	9	97.5	96.0
197	13-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1985	5	94.8	91.1
197	13-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T1985	9	92.1	87.7
197	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1986	5	108.2	97.5
197	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1986	9	105.9	95.5
197	13-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1987	5	105.8	94.4
197	13-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1987	9	103.6	91.8
197	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1988	9	100.9	96.4
197	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1989	2	90.8	86.2
197	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1990	9	111.4	102.9
197	13-Jun-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T1991	2	103.2	94.3
197	13-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1984	4	99.3	97.2
198	30-May-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T903	7	97.5	88.6
198	30-May-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T905	3	94.1	85.1
198	30-May-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T905	7	93.9	84.0
198	30-May-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T906	3	106.6	95.1
198	30-May-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T906	7	106.4	94.7
198	30-May-00	post-fledg	50 cal Blank	45			Extrapolation	Base	T901	2	110.3	98.4
198	30-May-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T901	7	111.9	100.0
198	30-May-00	post-fledg	50 cal Blank	45			Extrapolation	Cav	T903	2	96.0	88.5
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1533	2	88.4	87.8
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1520	3	110.1	102.8
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1520	7	105.4	98.1
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1520	11	108.2	100.6
201	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1521	3	113.9	107.3
201	21-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1521	14	113.3	106.5
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1522	3	89.5	88.7
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1522	6	84.7	83.6
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1522	10	86.6	85.1
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1523	3	102.0	100.9
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1523	14	100.8	99.8
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1530	3	109.7	100.1
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1531	2	108.6	99.2
201	21-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1532	3	88.1	87.6
205	6-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Cav	T1038	3	107.8	96.8
205	6-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Cav	T1038	8	110.1	99.3

205	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1040	3	107.2	95.3
205	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1040	7	108.2	96.3
205	6-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Base	T1041	3	85.7	85.5
205	6-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Base	T1041	7	89.7	89.6
205	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1043	3	82.8	82.9
205	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1043	7	84.6	84.8
205	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1045	3	78.0	77.4
205	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1045	7	79.1	78.8
205	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1047	3	104.0	92.0
205	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1047	7	103.7	92.2
205	6-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Base	T1320	3	78.3	78.4
205	6-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Base	T1320	7	84.3	84.5
205	6-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Base	T1320	11	86.0	86.1
205	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1322	3	83.8	84.2
205	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1322	7	85.9	85.9
205	6-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Cav	T1323	3	97.1	86.3
205	6-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Cav	T1323	7	104.1	93.4
205	6-Jun-00	post-fledg	50 cal Blank	75			Extrapolation	Cav	T1323	11	105.5	94.7
205	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1325	3	103.9	92.5
205	6-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1325	7	105.8	95.4
205	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Cav	T1327	6	101.3	91.1
205	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1329	3	79.6	79.6
205	6-Jun-00	post-fledg	50 cal Blank	120			Extrapolation	Base	T1329	6	81.7	81.7
207	27-Apr-00	I-1	50 cal Blank	60	2	26.783		Base	T883	3	94.1	85.7
207	27-Apr-00	I-1	50 cal Blank	60	2	26.783		Base	T883	9	97.2	88.5
207	27-Apr-00	I-1	50 cal Blank	60	2	26.783		Base	T883	13	95.6	87.3
207	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1843	7	106.5	97.1
207	7-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1845	3	99.1	89.3
207	7-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1845	6	95.5	85.0
207	7-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1845	11	96.5	84.3
207	7-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	0	0	90.9	85.0
207	7-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1846	6	88.3	84.3
207	7-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1846	11	88.2	80.6
207	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1837	3	109.7	99.4
207	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1837	11	110.8	100.5
207	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1839	10	103.6	99.3
207	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1841	3	96.0	92.6
207	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1841	7	98.5	95.4
207	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1843	3	104.4	94.3
207	15-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1512	3	96.6	97.0
207	15-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1512	7	97.7	98.0
207	15-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1513	3	105.6	97.8

207	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1513	7	106.5	99.1
207	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1514	3	96.4	86.0
207	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1514	7	100.2	90.0
207	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1515	3	103.3	96.6
207	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1515	5	101.9	96.1
207	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1516	3	81.0	81.0
207	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1516	7	84.1	84.2
207	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1517	3	92.0	92.5
207	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1517	6	93.9	94.5
216	8-May-00	N-4	50 cal Blank	120	0				Base	T1186	6	85.9	79.3
216	8-May-00	N-4	50 cal Blank	120	0				Base	T1186	8	88.3	81.2
216	8-May-00	N-4	50 cal Blank	120	0				Base	T1186	3	85.7	79.2
216	1-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1422	3	98.7	90.6
216	1-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1422	6	98.8	90.3
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1424	3	94.6	87.4
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1424	7	95.8	88.5
216	1-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1425	3	84.6	85.3
216	1-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1425	6	83.9	84.5
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1427	4	82.4	83.0
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1427	7	83.0	83.7
216	1-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1456	3	103.0	93.4
216	1-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1456	7	102.3	92.7
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1458	3	101.1	90.7
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1458	6	99.5	89.1
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1458	9	99.4	89.0
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1458	11	99.1	88.6
216	1-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1459	4	83.1	82.6
216	1-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1459	7	82.6	82.3
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1461	4	81.2	81.5
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1461	6	78.7	78.9
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1461	9	78.4	78.6
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1461	12	77.9	78.1
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1462	3	78.5	78.8
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1462	6	78.2	78.5
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1462	9	78.5	78.8
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1463	3	99.9	89.2
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1463	6	99.9	89.4
216	1-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1463	9	99.9	89.3
218	8-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1606	3	107.0	100.2
218	8-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1606	6	107.8	100.8
218	8-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1608	3	96.1	95.8
218	8-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Base	T1608	6	96.6	96.3

218	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1610	3	86.7	86.8
218	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1610	6	88.1	88.1
218	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1612	4	84.8	85.0
218	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1612	8	84.4	84.5
218	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1613	3	102.3	95.4
218	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1613	6	103.5	97.2
218	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1615	4	99.4	93.4
218	8-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1615	7	97.8	89.5
221	23-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1379	3	89.1	89.3
221	23-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1373	2	112.0	102.2
221	23-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1373	8	113.5	103.7
221	23-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1375	2	95.6	95.0
221	23-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1375	8	97.2	96.6
221	23-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1376	4	106.4	96.3
221	23-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1377	4	106.9	96.7
221	23-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1378	4	88.3	88.5
222	8-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1888	5	111.7	101.8
222	8-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1888	8	111.3	101.4
222	8-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1889	5	114.3	105.0
222	8-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1889	8	115.0	105.8
222	8-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1891	5	100.0	93.4
222	8-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1891	8	99.5	92.8
222	8-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1892	5	105.0	102.5
222	8-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1892	8	105.6	103.0
222	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1893	4	92.5	86.0
222	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1893	8	93.9	87.5
222	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1894	4	108.0	97.1
222	8-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1894	8	109.1	98.7
227	15-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1492	3	83.7	84.1
227	15-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1492	7	84.8	85.1
227	15-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1493	4	88.7	88.9
227	15-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1493	7	90.5	90.8
227	15-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1494	3	99.7	88.6
227	15-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Cav	T1494	7	100.7	89.6
227	15-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1495	4	101.8	91.0
227	15-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1495	7	103.8	93.1
227	15-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1497	4	111.5	100.7
227	15-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1497	18	111.6	100.9
227	15-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1499	4	101.9	102.0
227	15-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1499	18	102.9	103.0
227	15-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1505	3	98.7	98.6
227	15-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1505	6	101.1	101.1

227	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1507	3	108.2	96.7
227	15-Jun-00	post-fledg	50 cal Blank	30				Extrapolation	Cav	T1507	6	109.6	97.9
227	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1508	3	103.2	92.2
227	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Cav	T1508	7	103.2	91.4
227	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1509	3	100.7	88.5
227	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Cav	T1509	6	100.5	89.4
227	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1510	3	90.7	91.3
227	15-Jun-00	post-fledg	50 cal Blank	60				Extrapolation	Base	T1510	7	91.2	91.8
227	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1511	3	84.7	85.0
227	15-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1511	6	83.7	83.7
228	27-Apr-00	I-2	50 cal Blank	90	2	2.983			Base	T1143	6	91.7	82.6
228	27-Apr-00	I-2	50 cal Blank	90	2	2.983			Base	T1143	9	94.5	85.4
228	27-Apr-00	I-2	50 cal Blank	90	2	2.983			Base	T1143	13	95.0	86.1
228	1-May-00	I-6	50 cal Blanks	120	2	13.267			Base	T491	3	85.4	75.1
228	1-May-00	I-6	50 cal Blanks	120	2	13.267			Base	T491	8	85.9	75.8
228	1-May-00	I-6	50 cal Blanks	120	2	13.267			Base	T491	13	85.9	75.2
228	4-May-00	I-9	50 cal Blank	240	0				Base	T820	4	61.1	54.7
228	4-May-00	I-9	50 cal Blank	150	0				Base	T821	3	81.1	70.1
228	4-May-00	I-9	50 cal Blank	150	0				Base	T821	7	86.7	75.7
228	7-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1548	3	97.7	85.6
228	7-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1548	9	98.9	86.7
228	7-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1551	2	91.2	78.6
228	7-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1551	5	93.3	80.6
228	7-Jun-00	post-fledg	50 cal Blank	150				Extrapolation	Cav	T1553	2	86.5	74.0
228	7-Jun-00	post-fledg	50 cal Blank	150				Extrapolation	Cav	T1553	5	88.2	75.4
228	7-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1555	2	71.7	70.8
228	7-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1555	5	73.9	72.4
228	7-Jun-00	post-fledg	50 cal Blank	150				Extrapolation	Base	T1557	2	68.6	66.6
228	7-Jun-00	post-fledg	50 cal Blank	150				Extrapolation	Base	T1557	5	70.9	67.9
228	7-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1537	4	90.3	82.8
228	7-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1537	11	93.2	83.8
228	7-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1539	3	89.1	77.3
228	7-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Base	T1539	6	91.2	79.4
228	7-Jun-00	post-fledg	50 cal Blank	150				Extrapolation	Cav	T1541	4	88.8	76.5
228	7-Jun-00	post-fledg	50 cal Blank	150				Extrapolation	Cav	T1541	7	88.2	76.2
228	7-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1543	3	75.4	75.1
228	7-Jun-00	post-fledg	50 cal Blank	120				Extrapolation	Cav	T1543	6	77.8	77.6
228	7-Jun-00	post-fledg	50 cal Blank	150				Extrapolation	Cav	T1545	4	75.7	75.2
228	7-Jun-00	post-fledg	50 cal Blank	150				Extrapolation	Cav	T1545	7	75.3	74.7
228	7-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1546	3	76.4	75.9
228	7-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1546	9	79.4	78.7
228	7-Jun-00	post-fledg	50 cal Blank	90				Extrapolation	Base	T1535	4	79.2	79.1

228	7-Jun-00	post-fledg	50 cal Blank	90			Extrapolation	Base	T1535	11	81.3	81.1
289	9-May-00	Incubation	50 cal Blank	60	2	13.883		Base	T954	8	92.9	88.9
289	9-May-00	Incubation	50 cal Blank	60	2	13.883		Base	T954	2	88.0	83.5
289	9-May-00	Incubation	50 cal Blank	60	2	13.883		Base	T954	5	93.4	89.0
289	12-May-00	Incubation	50 cal Blank	90	0			Base	T1197	2	91.5	85.8
289	12-May-00	Incubation	50 cal Blank	90	0			Base	T1197	5	91.3	85.1
289	12-May-00	Incubation	50 cal Blank	90	0			Base	T1197	8	94.9	88.5
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1764	2	110.7	100.8
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1764	9	110.7	100.8
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1766	2	100.5	95.7
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1766	9	100.4	95.4
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1767	3	94.0	87.8
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1767	9	95.5	89.1
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1768	3	106.1	95.4
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1768	9	107.8	97.1
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1772	1	111.6	102.1
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1772	6	111.5	102.0
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1774	1	97.7	93.3
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1774	6	98.0	93.4
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1775	2	95.7	89.0
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1775	7	89.1	82.7
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1775	24	96.4	90.2
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1776	2	111.4	101.1
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1776	7	105.0	94.7
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1776	24	112.0	101.7
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1779	2	110.4	101.8
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1779	8	107.9	99.6
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1781	2	99.9	94.5
294/176	22-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1781	7	98.4	92.9
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1783	2	94.0	86.2
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1783	6	95.5	87.5
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1784	3	106.9	97.7
294/176	22-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1784	6	107.9	98.6
296	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1563	5	118.2	110.5
296	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1564	4	113.9	105.3
296	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1564	8	116.1	107.5
296	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1566	5	107.7	107.6
296	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1567	4	99.2	99.6
296	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1567	8	100.3	100.8
296	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1568	3	86.2	86.5
296	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1568	8	86.8	87.1
296	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1569	8	107.5	100.1

296	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Base	T1574	2	106.1	94.5
296	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1574	9	106.6	94.8
296	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1575	3	109.4	98.5
296	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Cav	T1575	7	110.3	99.7
296	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1577	3	96.1	96.4
296	7-Jun-00	post-fledg	50 cal Blank	30			Extrapolation	Cav	T1577	8	96.0	96.1
296	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1578	3	101.0	101.2
296	7-Jun-00	post-fledg	50 cal Blank	15			Extrapolation	Base	T1578	7	102.7	102.7
296	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1580	3	87.6	87.8
296	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Base	T1580	7	86.7	87.0
296	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1581	2	105.3	95.8
296	7-Jun-00	post-fledg	50 cal Blank	60			Extrapolation	Cav	T1581	7	105.8	95.5

Table D 4. Representative unweighted spectra for experimental .50-caliber blank fire on Fort Stewart, GA, 2000.

Band SEL (dB) at 1/3 Octave Spectrum Center Frequencies (Hz)

CL	Date	Event Type	Event File #	Dist. (m)	Spec. #	10	13	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Calc. Overall SEL
2	5/4	50 cal Blank	T10602	75		53	49	65	62	70	71	74	76	78	80	81	80	77	71	71	70	69	71	73	74	74	75	74	73	73	72	70	68	66	62	57	50	39	27	89
2	5/4	50 cal Blank	T10607	75		58	52	52	66	71	73	77	80	82	84	85	84	81	75	75	73	72	74	76	77	77	78	78	78	76	75	74	71	69	66	61	54	42	31	93
2	6/6	50 cal Blank	T10164	30		77	73	70	78	75	78	80	81	83	87	93	93	111	113	93	89	89	102	93	93	94	91	87	86	85	82	80	77	74	70	69	66	59	53	116
2	6/6	50 cal Blank	T10168	30		73	74	74	73	75	78	79	80	82	86	89	94	112	114	95	89	90	103	94	93	94	91	87	86	85	83	81	78	75	72	70	67	61	53	116
2	6/6	50 cal Blank	T10174	15		80	76	74	71	73	76	78	77	82	85	86	93	110	115	93	89	89	103	96	93	97	94	91	90	89	86	84	82	80	78	75	72	66	61	116
2	6/6	50 cal Blank	T10177	15		79	76	74	71	73	77	79	79	84	86	89	94	111	115	95	89	90	104	97	94	98	95	92	90	90	87	84	82	80	78	76	73	68	60	117
2	6/6	50 cal Blank	T10184	30		61	62	62	59	62	66	69	71	73	77	79	79	80	83	85	83	81	82	82	87	88	88	90	91	92	92	93	92	88	86	85	83	76	67	101
2	6/6	50 cal Blank	T10188	30		60	53	53	61	61	67	69	71	73	76	79	80	81	83	86	84	82	84	82	86	87	87	90	91	91	92	92	91	88	87	85	83	76	65	101
2	6/6	50 cal Blank	T10193	15		68	53	53	68	67	70	72	74	77	81	82	82	83	92	94	92	92	93	88	92	93	94	95	95	95	95	93	93	93	92	92	91	85	76	106
2	6/6	50 cal Blank	T10197	15		65	62	62	70	69	74	74	77	79	79	83	83	84	92	95	93	92	93	88	91	93	96	95	96	95	96	94	95	93	93	92	91	85	77	107
2	6/6	50 cal Blank	T10213	60		52	46	47	49	52	47	52	53	58	64	66	66	65	68	69	65	68	73	74	77	80	81	84	82	81	79	78	75	74	72	70	66	57	44	90
2	6/6	50 cal Blank	T10217	60				43	43	45	50	53	57	60	66	67	68	68	69	72	68	70	75	76	79	80	82	83	83	83	81	79	78	76	74	72	68	59	48	92
2	6/6	50 cal Blank	T10238	60		72	63	70	63	67	70	73	75	76	80	83	86	103	103	90	85	86	93	86	87	84	81	79	83	82	78	76	73	69	66	64	62	58	55	108
2	6/6	50 cal Blank	T10293	15		75	78	77	77	78	79	80	81	83	93	93	103	108	107	89	84	94	92	88	93	100	96	93	94	92	91	92	89	90	87	86	82	76	67	111
2	6/6	50 cal Blank	T10298	15		77	78	78	78	79	80	82	83	85	88	95	105	109	109	91	88	95	93	90	95	102	97	95	97	93	92	94	92	92	90	88	85	78	70	112
2	6/6	50 cal Blank	T10303	30		67	69	78	80	78	78	79	81	86	90	96	102	100	96	89	88	87	82	83	89	97	96	92	94	91	90	90	86	86	82	80	75	68	61	107
2	6/6	50 cal Blank	T10307	30		71	77	78	80	78	79	81	81	86	90	96	102	100	100	89	89	88	83	84	89	99	96	93	97	93	91	91	88	87	83	81	77	70	63	108
2	6/6	50 cal Blank	T10323	15		62	64	70	71	73	75	77	79	80	81	84	86	87	91	90	90	91	89	90	88	91	92	94	92	94	94	96	96	95	96	96	95	90	79	106
2	6/6	50 cal Blank	T10328	15		73	70	75	82	79	80	79	82	86	90	96	102	100	100	92	92	93	91	92	90	94	94	96	96	96	96	96	97	96	98	99	98	92	81	108
2	6/6	50 cal Blank	T10333	30		73	75	71	73	75	73	76	77	79	80	77	79	77	76	81	83	80	85	84	85	84	86	88	87	88	89	88	88	87	88	86	85	78	56	99
2	6/6	50 cal Blank	T10337	30		62	70	71	73	74	74	77	80	80	80	78	80	78	77	83	84	79	86	84	85	85	87	89	89	89	90	89	89	88	89	88	86	79	59	100
2	6/6	50 cal Blank	T10343	60		55	58	64	70	72	76	74	75	78	82	66	68	67	66	66	71	64	65	69	72	73	75	78	77	75	74	73	72	71	71	69	65	55	28	85
2	6/6	50 cal Blank	T10347	60		49	45	48	45	48	54	60	66	72	74	68	69	69	68	68	72	67	67	72	74	76	78	79	79	77	76	76	75	74	73	71	67	58	32	88
2	6/6	50 cal Blank	T10353	60		45	61	58	63	66	72	72	74	76	82	87	92	93	83	77	77	72	71	70	75	85	81	79	79	75	74	74	69	69	65	61	55	47	44	97
2	6/6	50 cal Blank	T10357	60		44	66	60	67	69	74	76	78	78	83	89	94	95	85	79	79	73	72	74	78	88	85	81	80	78	76	77	72	71	68	64	58	51	48	99
2	6/9	50 cal Blank	T16182	90		64	66	63	62	67	70	75	77	81	84	87	91	97	101	81	81	71	65	75	91	79	80	78	79	78	66	65	62	60	65	63	53	43	37	104
6	6/9	50 cal Blank	T16203	60		67	72	74	68	72	74	76	79	83	86	90	93	94	95	88	83	75	74	81	98	85	81	81	81	83	76	73	74	73	75	71	61	53	39	102

Date	Type	ID	Dur	n	Grp	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30	V31	V32	V33	V34	V35
6/9	50 cal Blank	T1620	60	6	6	102	39	51	58	69	73	71	71	73	75	81	80	79	79	84	97	80	73	74	83	87	94	93	92	89	86	82	78	75	74	64	72	65	58	64
6/9	50 cal Blank	T1621	90	3	6	88	34	52	62	68	71	74	74	74	76	77	79	81	77	77	75	72	70	64	67	68	65	70	64	67	67	61	64	63		67	64		58	
6/9	50 cal Blank	T1623	60	3	6	94	44	67	73	76	77	74	74	74	76	77	85	83	81	80	76	73	71	66	67	66	63	71	71	69	73	73	49	59	49			58	55	
6/9	50 cal Blank	T1623	60	6	6	92	37	62	72	72	75	76	78	80	82	84	87	85	83	80	79	75	73	68	67	67	64	61	70	70	72	73		60	63	63	60		59	58
6/9	50 cal Blank	T1624	120	3	6	83	31	40	52	59	63	66	69	68	72	74	75	75	72	70	69	69	66	62	63	63	60	59	58	60	62	66	52	52	60		60	63		56
6/9	50 cal Blank	T1624	120	7	6	82	41		50	58	63	65	68	69	72	74	74	74	74	76	70	68	66	61	64	65	65	66	59	60	61	66	56		48		66	63		56
6/9	50 cal Blank	T1626	120	3	6	99	38	45	65			61	71	81	87	86	96	91	87	84	86	87	81	77	77	81	77	73	68	64	61	70	72	69	63	62	57	57	55	72
6/9	50 cal Blank	T1630	60	3	6	89	55	65	45	58	60	63	66	67	69	72	73	66	65	71	76	70	61	64	67	67	66	73	64	65	67	70	71	72	75	70	66	63	60	63
6/9	50 cal Blank	T1630	60	7	6	91	39	57	67	58	58	61	61	69	74	75	77	61	60	65	86	73	70	77	74	71	71	74	81	87	71	81	52		62	57			61	63
6/9	50 cal Blank	T1632	90	3	6	85	44	54	52	60	64	67	69	72	69	74	72	66	62	60	77	74	76	76	75	71	69	76	81	82	66	79	52	57	61	59	62	61	57	61
6/9	50 cal Blank	T1632	90	6	6	84	45	54	54	61	64	68	66	71	73	75	73	61	60	61	78	77	74	74	74	68	64	73	84	86	64	77	52	64	65	58	57	66	58	61
6/9	50 cal Blank	T1633	60	3	6	108	34	52	64	62	68	69	68	73	69	74	69	82	81	76	86	82	77	77	80	84	79	89	92	91	74	83	69	71	71	55	66	63	70	74
6/9	50 cal Blank	T1633	60	7	6	109	34	52	64	62	68	71	66	71	68	71	68	82	82	79	88	83	80	77	82	86	81	91	102	108	77	84	74	68	63	62	74	66	74	77
6/9	50 cal Blank	T1635	90	2	6	103	42	48	51	56	62	69	63	76	75	71	74	63	70	76	81	80	75	66	71	76	74	90	95	102	70	80	70	69	55	56	62	63	48	64
6/9	50 cal Blank	T1635	90	6	6	102	41	41	48	53	58	60	61	64	70	68	69	64	69	77	78	79	74	64	69	79	77	89	94	101	69	77	69	61	53	53	51	61	41	63
6/9	50 cal Blank	T1637	120	3	6	100	34	34	41	45	52	60	62	60	67	70	67	61	62	70	77	77	73	63	68	77	74	82	91	98	68	78	62	60	52	52	60	58	34	61
6/9	50 cal Blank	T1639	120	3	6	80		36			45	59	63	66	70	70	71	63	52	57	68	66	69	66	60	54	59		64	61	62	58			58			57	
5/2	50 cal Blank	T1131	45	2	10	89	42	50	56	60	62	58	56	57	66	69	69	66	69	79	68	66	68	66	69	79	79	80	61	80	72	67	52	69	56	51	53	60	46	48
5/2	50 cal Blank	T1132	45	1	10	89	43	51	57	61	62	57	55	57	66	68	68	67	69	79	70	69	70	67	68	79	80	81	80	80	75	67	69	69	63	60	61	63	43	56
5/2	50 cal Blank	T1132	45	4	10	90	39	48	58	61	61	58	56	57	66	67	66	67	70	80	71	70	72	70	66	79	80	81	81	81	70	80	70	67	65	56	60	61	49	56
5/2	50 cal Blank	T1133	45	1	10	89	32	46	55	58	62	58	51	51	66	64	62	67	69	80	73	71	71	71	71	79	79	80	80	80	69	77	69	67	62	58	58	58	56	60
5/2	50 cal Blank	T1133	45	5	10	89	31	45	54	55	58	55	57	60	64	66	63	67	73	77	78	73	73	71	73	80	80	81	80	81	73	80	73	69	58	62	60	63	57	67
5/2	50 cal Blank	T1134	45	3	10	92	42	49	58	62	62	58	64	64	71	72	67	69	72	80	77	73	75	76	77	83	83	81	81	83	71	82	72	65	64	66	58	62	52	64
5/2	50 cal Blank	T1135	45	3	10	89	30	44	53	58	58	53	60	57	67	69	67	68	70	80	77	71	71	72	70	80	80	80	80	80	70	77	70	67	58	61	61	69	57	69
5/2	50 cal Blank	T1136	45	2	10	91	33	48	54	58	65	54	48	51	67	67	67	72	74	80	78	68	72	70	71	82	81	81	82	81	72	80	72	69	58	51	58	65	48	63
5/2	50 cal Blank	T1136	45	18	10	91	38	48	56	60	58	48	59	59	68	68	69	74	73	77	81	69	71	71	73	84	82	82	84	81	74	83	74	73	55	62	59	63	59	67
5/2	50 cal Blank	T1137	45	11	10	94	49	57	61	64	61	57	53	55	66	66	66	72	70	78	78	75	77	72	75	85	84	84	85	86	75	86	75	71	66	64	60	66	53	67
5/2	50 cal Blank	T1137	45	25	10	94	47	55	60	61	58	54	54	60	72	64	62	69	75	76	76	74	73	71	75	86	85	80	77	81	75	84	76	73	62	63	64	62	54	67
5/5	50 cal Blank	T874	45	2	10	88		48	56	61	58	57	60	61	65	67	67	70	72	75	68	68	69	68	71	81	80	81	76	79	77	80	75	71	67	61	65	61	57	69
5/5	50 cal Blank	T875	45	3	10	93	34	52	52	48	61	75	61	61	67	69	69	73	71	72	71	70	77	71	72	82	85	87	86	81	82	84	67	71	67	61	66	61	45	69
5/5	50 cal Blank	T875	45	6	10	95	52	34	53	70	67	63	59	66	69	69	68	71	73	74	74	73	74	74	74	88	87	85	83	81	81	83	68	71	69	67	69	66	53	70

Code	Date	Sample	No.	ID	Readings →
10	5/5	50 cal Blank	45	T875	9, 51, 57, 68, 69, 72, 76, 78, 81, 83, 85, 87, 89, 89, 86, 84, 83, 77, 70, 73, 74, 75, 75, 75, 76, 75, 76, 75, 73, 72, 70, 68, 64, 55, 36, 96
10	5/9	50 cal Blank	30	T1182	4, 60, —, —, 58, 60, 63, 67, 68, 72, 78, 77, 78, 80, 83, 78, 70, 77, 79, 80, 83, 86, 84, 83, 79, 75, 73, 70, 61, 35, 94
10	5/9	50 cal Blank	30	T1182	7, —, —, 63, 59, 66, 67, 58, 71, 79, 77, 78, 78, 84, 84, 71, 71, 75, 79, 85, 85, 87, 84, 80, 79, 79, 75, 71, 64, 42, 95
10	5/9	50 cal Blank	30	T1182	10, 55, 61, 57, 53, 74, 57, 59, 62, 70, 71, 79, 79, 79, 84, 81, 71, 76, 79, 84, 84, 86, 84, 81, 79, 79, 76, 71, 62, 41, 94
12	6/9	50 cal Blank	30	T1643	3, —, —, 72, 61, 77, 77, 78, 85, 95, 87, 92, 94, 108, 101, 91, 87, 85, 83, 85, 84, 83, 83, 81, 74, 72, 70, 67, 64, 62, 49, 40, 110
12	6/9	50 cal Blank	30	T1643	7, 61, —, 75, 74, 75, 77, 78, 82, 92, 94, 90, 91, 106, 99, 88, 84, 82, 81, 83, 81, 80, 81, 79, 72, 70, 64, 62, 57, 49, 40
12	6/9	50 cal Blank	30	T1645	3, —, —, 69, 74, 74, 75, 75, 82, 73, 78, 77, 79, 76, 77, 77, 78, 76, 86, 88, 86, 85, 81, 79, 75, 71, 63, 61, 60, 56, 49, 107
12	6/9	50 cal Blank	30	T1645	7, 61, —, 69, 69, 70, 68, 61, 71, 73, 73, 71, 79, 78, 73, 72, 77, 80, 82, 82, 84, 83, 82, 79, 74, 77, 65, 63, 74, 65, 46, 95
12	6/9	50 cal Blank	90	T1646	2, —, —, 68, —, 71, —, —, 71, 67, 64, 53, 71, 75, 76, 73, 72, 80, 83, 80, 83, 73, 73, 73, 71, 67, 65, 61, 47, 41, 45, 93
12	6/9	50 cal Blank	90	T1646	6, 65, —, 64, 58, 61, 63, 58, 63, 60, 64, 46, 68, 75, 57, 59, 74, 72, 73, 73, 72, 67, 68, 69, 69, 65, 60, 45, 41, 83
12	6/9	50 cal Blank	60	T1648	3, 62, —, 67, 66, 56, 55, 56, 65, 67, 64, 64, 72, 70, 59, 60, 73, 73, 74, 74, 73, 68, 68, 68, 67, 62, 60, 45, 41, 82
12	6/9	50 cal Blank	60	T1648	7, 60, 52, 55, 52, 70, 56, 64, 64, 70, 66, 62, 71, 75, 65, 70, 79, 80, 80, 80, 74, 73, 71, 71, 71, 69, 65, 55, 55, 89
12	6/9	50 cal Blank	90	T1649	3, 66, 56, 66, 55, 73, 73, 70, 67, 67, 66, 62, 73, 86, 89, 83, 86, 78, 77, 77, 78, 76, 75, 75, 69, 70, 67, 63, 53, 87
12	6/9	50 cal Blank	90	T1649	5, 67, 54, 63, 67, 73, 74, 75, 70, 77, 81, 73, 72, 88, 96, 75, 88, 82, 77, 76, 74, 75, 76, 75, 57, 57, 59, 44, 43, 34, 99
12	6/9	50 cal Blank	60	T1651	7, 61, 57, 64, 67, 68, 74, 75, 77, 80, 82, 72, 70, 87, 95, 75, 87, 82, 80, 74, 74, 76, 66, 62, 56, 59, 47, 34, 98
12	6/9	50 cal Blank	60	T1651	3, —, 69, 72, 70, 78, 78, 79, 81, 86, 94, 88, 85, 106, 99, 85, 90, 91, 83, 79, 74, 68, 65, 59, 63, 65, 55, 46, 34, 107
23	5/16	50 cal Blank	60	T587	7, 64, 52, 63, 71, 75, 75, 76, 79, 86, 93, 86, 83, 103, 98, 89, 89, 91, 82, 78, 75, 69, 65, 62, 61, 62, 55, 44, 34, 106
23	5/16	50 cal Blank	60	T881	3, 60, 56, 66, 72, 73, 74, 78, 83, 86, 88, 72, 77, 88, 87, 80, 72, 79, 78, 77, 75, 74, 73, 68, 71, 68, 65, 58, 50, 95
23	5/16	50 cal Blank	60	T881	5, 52, 54, 63, 71, 73, 74, 78, 84, 88, 88, 73, 73, 88, 88, 81, 72, 79, 79, 77, 75, 72, 72, 73, 72, 73, 65, 56, 46, 96
23	5/16	50 cal Blank	60	T881	7, 49, 57, 64, 69, 68, 73, 76, 82, 86, 85, 71, 70, 86, 85, 79, 70, 75, 75, 77, 76, 71, 71, 70, 70, 70, 63, 56, 48, 94
23	6/2	50 cal Blank	90	T1130	3, 56, 53, 58, 69, 67, 73, 75, 79, 81, 77, 66, 77, 80, 80, 79, 77, 71, 69, 72, 70, 70, 65, 62, 57, 52, 41, 24, 90
23	6/2	50 cal Blank	90	T1130	7, 56, 54, 61, 68, 68, 72, 75, 79, 81, 77, 65, 77, 80, 77, 79, 70, 70, 71, 71, 64, 62, 57, 51, 40, 24, 90
23	6/2	50 cal Blank	90	T1130	11, 57, 52, 59, 68, 67, 76, 76, 81, 82, 82, 67, 70, 80, 78, 80, 70, 71, 71, 72, 65, 62, 58, 52, 41, 27, 90
23	6/6	50 cal Blank	60	T587	15, 58, 57, 58, 70, 68, 74, 75, 83, 84, 84, 73, 74, 85, 82, 77, 74, 72, 73, 73, 65, 68, 65, 61, 51, 33, 92
32	5/9	50 cal Blank	45	T1106	3, —, 56, —, —, 61, 65, 67, 64, 66, 69, 67, 65, 69, 70, 69, 65, 78, 81, 80, 83, 80, 81, 72, 69, 60, 37, 91
32	5/9	50 cal Blank	45	T1106	6, 53, 61, 62, 60, 59, 63, 67, 69, 70, 71, 69, 67, 71, 72, 71, 67, 79, 81, 82, 85, 83, 81, 73, 70, 61, 38, 93
32	5/9	50 cal Blank	45	T1106	9, 64, 64, 59, 59, 65, 65, 70, 73, 74, 73, 70, 68, 74, 69, 71, 68, 82, 84, 85, 87, 81, 81, 77, 76, 72, 64, 42, 94
32	6/22	50 cal Blank	30	T1756	2, 68, 69, 69, 70, 74, 77, 79, 81, 85, 82, 85, 83, 89, 94, 87, 83, 84, 89, 84, 82, 76, 73, 69, 66, 61, 58, 111
32	6/22	50 cal Blank	30	T1756	6, 69, 73, 77, 77, 76, 80, 81, 83, 90, 87, 89, 86, 96, 113, 92, 85, 89, 92, 87, 84, 79, 75, 71, 69, 65, 61, 114
32	6/22	50 cal Blank	30	T1758	2, 72, 71, 75, 71, 78, 80, 81, 84, 86, 83, 90, 90, 85, 87, 88, 83, 80, 84, 85, 85, 86, 83, 82, 80, 78, 70, 48, 99

					6	67	72	77	80	85	88	88	92	93	93	91	88	89	85	82	82	83	84	83	85	86	87	87	87	88	85	84	84	82	80	73	50	102
32	6/22	50 cal Blank	30	T1758	6		68					68	71	80	88	84	79	81	78	75	73	77	78	79	80	80	80	78	77	79	74	73	77	73	78	73	50	102
32	6/22	50 cal Blank	60	T1759	3	63		69	72	73	78	80	85	85	86	84	79	81	78	75	73	77	78	79	80	80	80	78	78	77	74	73	75	73	74	57	37	94
32	6/22	50 cal Blank	60	T1759	8		55	58	64	64	63	63	68	79	79	76	72	74	71	62	63	65	65	67	72	71	69	68	68	68	55	64	62	63	64	48		85
32	6/22	50 cal Blank	60	T1759	9		67	71	75	75	80	82	87	88	89	86	82	83	80	76	74	78	79	80	82	82	82	79	79	76	80	75	76	74	75	57	85	
32	6/22	50 cal Blank	60	T1760	3	63	69	74	74	74	80	82	82	89	97	110	96	88	83	87	82	76	80	82	89	81	79	78	76	70	76	74	82	87	75	50	35	96
32	6/22	50 cal Blank	60	T1760	9	66	68	75	77	76	78	80	81	86	99	112	98	90	85	88	83	78	81	84	91	84	83	80	73	72	76	76	83	88	74	56	38	110
32	6/22	50 cal Blank	75	T788	3	52	62	65	66	71	78	78	78	81	82	80	76	71	69	69	65	72	73	74	74	74	75	74	71	71	74	71	65	62	56	49	31	112
36	5/10	50 cal Blank	75	T788	7	49	64	65	68	72	78	78	79	81	82	80	76	71	69	69	67	73	74	74	75	75	74	76	75	76	74	72	67	64	57	48	32	90
36	5/10	50 cal Blank	75	T788	10	45	65	64	68	72	78	79	79	81	83	81	77	73	70	69	67	74	75	76	76	75	75	76	75	76	75	72	67	64	60	51	34	91
36	5/10	50 cal Blank	75	T1927	3	62		70					77	82	83	82	75	74	71	72	70	73	72	73	74	75	74	75	77	77	73	72	72	70	62	49		91
36	6/12	50 cal Blank	75	T1929	3	64	64	70	65	73	78	79	81	82	83	82	75	74	71	74	77	70	66	67	76	77	87	80	74	74	72	73	74	77	64	47	35	91
36	6/12	50 cal Blank	90	T1931	2	57	65	65	64	70	75	75	80	96	88	95	85	90	84	69	71	65	62	63	75	75	81	74	72	72	73	70	69	71	57	40		
36	6/12	50 cal Blank	90	T1931	6	60	62	65	68	73	75	75	80	91	85	88	82	86	79	70	73	67	63	65	76	75	82	75	75	75	76	73	70	73	60	42	100	100
36	6/12	50 cal Blank	90	T1932	2	54	57	64	66	70	75	76	80	93	86	90	84	88	81	67	64	70	70	71	71	72	73	72	75	85	76	73	67	64	54	53		
36	6/12	50 cal Blank	90	T1932	6	63	64	68	67	74	76	76	80	93	84	77	72	68	66	69	66	71	72	73	72	74	75	75	74	82	73	74	69	66	63	44	44	95
36	6/12	50 cal Blank	90	T1935	2		63	69	68	73	76	76	79	80	83	79	74	71	68	67	63	69	70	70	74	74	76	75	72	84	73	74	67	63	58	48	48	97
36	6/12	50 cal Blank	90	T1935	6	65	62	66	69	74	78	77	81	82	83	78	76	75	69	68	64	71	70	70	70	71	77	76	75	78	74	74	68	64	60	41		88
36	6/12	50 cal Blank	90	T1937	2		61	70	67	74	76	79	81	85	83	79	76	71	71	68	72	67	67	70	70	71	71	69	70	72	74	71	68	61	60	41		90
36	6/12	50 cal Blank	90	T1937	6	59	67	70	72	75	78	78	82	80	83	79	77	75	77	71	72	69	67	71	71	72	72	70	71	79	74	73	71	67	59	42		88
36	6/12	50 cal Blank	75	T1940	3	70	66	74	66	73	76	77	81	82	83	82	79	80	79	72	74	70	70	73	73	74	73	72	75	81	75	74	72	68	70	43		89
36	6/12	50 cal Blank	75	T1940	7		69	70		74	77	80	81	80	90	83	81	84	81	70	75	72	72	73	74	73	73	71	75	82	77	75	70	68	66	52	43	93
36	6/12	50 cal Blank	75	T1942	3	66	70	73	68	74	78	80	82	82	91	84	86	87	80	72	68	72	74	74	74	75	74	73	76	78	77	79	68	70	67	52	52	94
36	6/12	50 cal Blank	75	T1942	7		70	73	68	75	79	82	86	83	87	91	92	93	67	73	69	79	75	81	81	82	82	82	81	89	83	82	69	71	73	45	52	97
36	6/12	50 cal Blank	30	T1944	3	74	80	74	66	74	83	85	88	87	90	93	98	96	69	75	69	81	81	82	83	83	84	83	82	92	83	83	69	72	74	0		97
36	6/12	50 cal Blank	30	T1944	6			78					73	90	79	102	99	98	88	85	82	84	82	80	86	89	80	84	83	73	78	80	88	73	78	0		91
36	6/12	50 cal Blank	30	T1946	3	77	69	82	77	80	85	88	89	91	90	102	76	77	89	86	84	85	79	84	89	92	86	80	76	75	79	80	73	73	76	49	62	92
36	6/12	50 cal Blank	30	T1946	7	74	74						75	78	73	76	76	78	90	88	88	75	74	74	75	73	73	73	68	72	70	69	71	72	66	68	66	100
42	4/25	50 cal Blank	90	T563	4	52	76	68	68	70	72	72	74	79	73	77	77	70	92	88	88	76	76	75	75	75	74	74	70	72	72	72	66	68	70	63	102
42	4/25	50 cal Blank	90	T563	8	51	60	60	67	72	74	75	75	71	74	75	73	67	69	66	63	68	73	71	71	72	74	74	50	57	60	49	39	34	67	65	105
42	5/1	50 cal Blank	120	T1079	2	49	56	63	66	72	74	75	76	71	73	73	68	70	64	66	63	68	71	71	72	72	74	68	41	48	55	40	32	24	65	65	106
42	5/1	50 cal Blank	120	T1079	7	48	61	62	68	71	73	76	75	76	74	73	68	68	64	65	65	68	71	71	71	71	71	68	47	54	59	39	30	23	65	23	85

	Date	Type	Qty	Sample	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
42	5/1	50 cal Blank	120	T1079	12	47	48	61	59	68	69	71	74	76	77	77	75	73	75	70	63	64	64	68	71	71	70	72	71	70	67	66	64	59	53	47	40	31	21	86
42	5/31	50 cal Blank	90	T1406	3	44	40	39	39		46	47	50	54	58	63	65	64	66	66	66	67	73	76	78	77	79	79	78	76	75	76	74	70	69	64	59	47	28	88
42	5/31	50 cal Blank	90	T1406	7			45	39	43	43	49	50	55	60	64	66	65	66	67	68	68	74	77	78	78	80	80	80	77	75	76	75	70	69	64	59	46	29	89
42	5/31	50 cal Blank	120	T1408	3	40		40			46	46	52	56	60	63	63	62	63	64	62	64	70	73	76	75	78	77	76	75	73	73	71	67	65	60	55	44	25	86
42	5/31	50 cal Blank	120	T1408	7	41	41	43	44	44	44	47	53	57	61	64	65	64	65	65	65	65	72	75	78	77	78	78	77	75	74	74	73	69	66	62	56	46	28	87
42	5/31	50 cal Blank	90	T1409	3	70	66	63	63	65	67	69	70	73	75	79	85	98	99	83	77	78	83	85	93	79	76	73	68	74	71	68	68	61	56	55	49	46	44	102
42	5/31	50 cal Blank	90	T1409	6	67	57	59	61	61	69	71	73	74	77	80	87	99	101	85	78	79	82	86	94	80	77	75	69	74	72	69	68	62	57	55	51	49	47	104
42	5/31	50 cal Blank	120	T1411	3	67	65	63	67	65	70	72	73	75	77	81	85	101	102	82	78	79	89	82	87	78	74	71	67	69	67	64	62	57	53	51	49	48	46	105
42	5/31	50 cal Blank	120	T1411	7	71	63	58	64	63	67	68	72	74	76	80	85	102	102	82	78	80	90	83	88	80	77	75	69	71	69	66	64	58	55	53	51	49	48	106
42	5/31	50 cal Blank	90	T1414	3	58	53	62	70	73	79	75	79	79	82	84	87	86	83	78	72	66	69	65	64	68	71	69	69	70	67	65	64	61	58	51	44	36	30	93
42	5/31	50 cal Blank	90	T1414	7	56	51	58	70	72	78	76	75	80	83	85	87	87	85	81	74	69	72	69	66	70	73	69	70	72	69	67	65	63	59	53	46	39	36	94
42	5/31	50 cal Blank	120	T1416	3	57	55	61	67	71	73	72	71	74	76	79	80	80	75	70	63	53	50	52	56	65	67	65	67	68	65	62	60	57	54	46	38	29	21	87
42	5/31	50 cal Blank	120	T1416	7	59	54	62	68	71	76	73	72	76	77	79	81	80	77	71	65	56	51	52	57	66	70	67	68	69	66	62	61	58	55	47	39	31	21	88
42	5/31	50 cal Blank	90	T1417	3	33		39	36	38	40	51	55	60	65	68	70	70	72	73	70	67	68	70	70	72	75	76	76	75	73	73	71	69	66	63	59	50	27	85
42	5/31	50 cal Blank	90	T1417	7	33		42	35		44	51	55	61	66	69	71	71	73	74	70	68	70	70	71	74	75	76	76	74	73	73	71	69	67	64	60	50	28	86
42	5/31	50 cal Blank	120	T1419	3	47	38	41	36		43	46	50	54	58	61	63	63	62	61	57	57	59	65	67	69	71	73	72	70	68	69	67	64	60	56	50	39	24	80
42	5/31	50 cal Blank	120	T1419	7	33		41	42		43	46	50	56	60	62	63	63	63	62	59	60	62	65	67	70	73	75	74	71	69	69	68	65	61	57	51	40	26	82
47	5/10	50 cal Blank	30	T1048	2	52	42	62	52	52	60	61	64	68	72	74	77	79	82	84	85	81	76	80	82	85	87	88	87	85	86	84	83	83	82	80	77	68	49	97
47	5/10	50 cal Blank	30	T1048	7			52	51	57	60	64	65	70	74	76	79	81	84	85	87	82	77	81	84	85	89	88	87	87	87	86	86	86	85	83	79	71	51	98
47	6/5	50 cal Blank	15	T1276	3	70	71	66	73	71	78	81	83	83	84	86	92	111	103	92	87	87	96	89	91	87	88	88	84	80	81	82	78	76	73	73	72	64	53	112
47	6/5	50 cal Blank	15	T1276	7	77	72	69	75	74	79	84	85	85	85	87	94	114	107	94	91	90	99	92	93	90	91	90	87	84	83	82	79	78	76	75	73	66	59	115
47	6/5	50 cal Blank	30	T1277	4	73	77	70	73	76	79	78	83	85	86	88	96	114	104	93	89	88	101	87	93	85	88	85	82	79	77	77	73	71	69	68	65	56	47	115
47	6/5	50 cal Blank	30	T1277	7	71	75	69	69	75	77	77	83	84	85	89	97	114	104	93	90	88	100	87	93	85	87	84	81	79	77	76	73	70	68	68	65	56	46	115
47	6/5	50 cal Blank	45	T1278	4	73	73	70	75	72	76	77	82	81	82	86	93	112	104	93	88	86	95	86	87	83	87	86	81	76	78	78	72	69	67	65	60	52	43	113
47	6/5	50 cal Blank	45	T1278	7	68	70	69	71	75	76	77	81	82	81	87	95	112	104	94	89	86	94	87	87	83	88	87	80	77	79	78	72	70	68	66	61	52	43	113
47	6/5	50 cal Blank	15	T1279	3	66	64	62	64	63	68	69	70	72	76	80	83	86	87	87	81	79	84	88	88	89	90	90	91	92	90	91	92	91	91	91	91	84	73	103
47	6/5	50 cal Blank	15	T1279	7	62	58	61	68	65	73	74	75	77	81	84	87	90	91	91	85	85	88	92	91	92	93	94	94	95	94	94	93	93	94	94	93	86	74	106
47	6/5	50 cal Blank	30	T1280	4	58	56	54	51	59	63	62	67	70	74	78	82	85	84	82	75	73	74	79	84	84	86	88	90	89	87	87	85	85	84	82	81	73	59	98
47	6/5	50 cal Blank	30	T1280	7			54	49	56	60	61	65	69	74	77	83	85	83	82	76	73	76	79	84	84	85	87	89	89	88	85	85	84	83	82	80	72	56	98

Range	Date	Type	Dur	Round	n	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\
47	6/5	50 cal Blank	45	T1281	4	57	48	43	53	57	58	63	67	72	75	78	77	74	69	70	75	76	79	81	83	83	84	82	81	79	78	76	74	66	54	93
47	6/5	50 cal Blank	45	T1281	7		53	52	53	53	58	63	67	72	76	78	78	74	70	70	76	77	80	82	86	83	84	81	82	80	78	76	74	66	51	94
47	6/5	50 cal Blank	15	T1288	3	80	72	76	78	77	79	86	86	91	91	95	112	111	96	90	101	101	93	93	91	88	86	84	80	77	73	71	68	64	59	52	115
47	6/5	50 cal Blank	15	T1288	6	78	75	77	74	78	79	87	87	92	96	112	111	96	92	101	101	93	94	88	88	84	85	76	75	72	69	67	64	58	50	115
47	6/5	50 cal Blank	30	T1289	2	77	71	72	71	77	80	82	83	88	93	109	111	97	89	100	91	91	91	86	85	83	80	76	72	69	67	63	58	50	114
47	6/5	50 cal Blank	30	T1289	6	78	67	77	69	78	80	82	83	88	93	110	112	97	90	101	92	92	89	87	84	81	79	76	75	71	68	63	61	56	49	115
47	6/5	50 cal Blank	45	T1290	3	74	70	78	77	76	79	81	84	87	93	108	110	97	90	92	90	86	91	82	78	84	75	74	70	66	63	61	56	45	113
47	6/5	50 cal Blank	45	T1290	6	71	67	75	75	76	80	82	83	87	92	109	110	97	91	96	89	85	86	82	81	78	74	70	67	63	56	52	46	113
47	6/5	50 cal Blank	15	T1291	2	63	68	63	70	73	76	82	81	87	90	87	87	90	88	85	90	83	88	81	78	74	70	68	59	56	52	72	104
47	6/5	50 cal Blank	15	T1291	6	70	65	59	67	73	78	83	84	92	94	87	87	83	88	83	93	92	79	78	75	70	68	70	92	89	84	73	105
47	6/5	50 cal Blank	30	T1292	2	62	56	60	61	72	79	82	81	87	89	83	81	79	83	79	91	87	81	81	76	72	65	58	62	60	52	61	100
47	6/5	50 cal Blank	30	T1292	6	64	53	56	58	73	80	83	84	86	87	82	82	79	81	80	91	87	83	83	76	74	65	61	60	52	62	100
47	6/5	50 cal Blank	45	T1293	3	58	54	53	67	73	74	78	77	73	87	78	83	77	78	73	83	83	77	79	74	70	74	67	64	58	48	70	96
47	6/5	50 cal Blank	45	T1293	6	49	52	58	68	76	73	78	78	77	87	78	77	78	78	77	95	84	79	79	75	69	66	59	58	52	51	94
47	6/5	50 cal Blank	45	T1278	4	73	70	72	76	79	86	82	104	112	81	82	93	90	86	95	86	83	83	76	78	72	69	65	60	52	43	113
47	6/5	50 cal Blank	45	T1278	7	68	67	70	74	73	79	86	101	109	87	83	90	86	83	90	80	79	81	74	75	68	67	64	63	58	48	39	110
47	6/5	50 cal Blank	15	T1279	3	66	64	70	73	75	84	83	101	89	87	79	79	81	83	90	77	77	90	76	74	68	69	66	64	63	58	73	103
48	4/27	50 cal Blank	30	T1172	4	65	68	78	76	80	85	87	90	79	82	87	88	81	84	82	83	88	83	82	82	79	80	79	72	68	59	44	101
48	4/27	50 cal Blank	30	T1172	9	57	72	74	79	79	82	85	90	91	81	81	88	88	79	83	81	84	87	84	82	81	75	79	75	73	69	60	43	101
48	4/27	50 cal Blank	30	T1172	14	53	64	68	70	72	74	76	84	80	81	80	80	71	85	71	74	76	75	71	64	64	67	64	61	51	34	93
48	4/27	50 cal Blank	30	T1172	24	60	65	76	75	85	90	90	92	80	88	88	82	78	78	82	79	82	84	84	82	79	72	81	68	59	40	100
48	5/4	50 cal Blank	30	T1007	4	65	67	75	78	82	87	88	90	85	80	86	88	80	78	75	76	84	82	77	77	78	73	72	71	68	64	54	39	100
48	5/4	50 cal Blank	60	T1007	6	46	64	70	73	77	85	89	90	80	78	83	86	76	76	78	78	80	79	77	76	76	75	73	69	65	51	36	98
48	6/21	50 cal Blank	60	T1739	3	71	51	64	70	80	85	89	90	84	85	81	76	78	84	88	82	89	86	84	75	74	73	72	69	51	43	99
51	6/21	50 cal Blank	30	T1739	6		66	63	75	76	84	88	88	90	85	84	78	76	83	92	78	80	87	85	80	75	73	71	66	57	52	100
51	6/21	50 cal Blank	30	T1741			70	66	70	77	80	84	84	90	86	82	80	78	85	94	78	82	83	81	75	73	67	61	56	40	110
51	6/21	50 cal Blank	30	T1741			63	65	63	74	81	83	85	89	86	81	78	76	84	90	79	83	84	73	71	68	61	51	43	106
51	6/21	50 cal Blank	60	T1743	3		63	66	70	75	82	84	85	92	81	82	88	87	78	82	70	70	82	73	71	68	60	49	107
51	6/21	50 cal Blank	60	T1743	7	64	69	72	74	79	83	88	85	92	82	82	88	87	78	80	69	72	79	73	70	69	68	59	50	44
51	6/21	50 cal Blank	60	T1744	3		66	70	68	75	77	80	84	84	76	77	77	74	76	76	82	79	82	77	76	74	73	71	67	56	34	93
51	6/21	50 cal Blank	60	T1744	7	58	58	62	69	74	76	80	84	85	86	77	79	82	80	83	78	77	75	74	74	75	73	70	63	34	95

Test	Date	Type	Charge	Gauge	Dist	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
51	6/21	50 cal Blank	30	T1747	3	110	43	55	64	68	70	71	73	75	79	80	79	84	90	89	88	86	96	83	85	89	99	110	92	84	78	80	75	73	75	75	77	65	
51	6/21	50 cal Blank	30	T1747	6	113	43	58	67	71	74	75	76	78	82	84	82	87	94	92	90	89	98	86	89	94	102	112	96	88	82	83	80	77	80	75	74	72	74
51	6/21	50 cal Blank	30	T1749	3	100	40	65	73	76	77	78	80	82	82	84	84	82	81	81	81	80	78	82	88	92	94	93	90	88	84	81	79	78	76	72	66	72	74
51	6/21	50 cal Blank	30	T1749	6	103		66	74	77	79	80	82	83	83	85	85	84	83	82	83	82	80	84	91	94	96	95	93	90	86	83	82	81	79	76	71		61
51	6/21	50 cal Blank	60	T1751	2	95	34	63	72	75	77	77	78	78	81	81	80	80	79	78	77	77	74	71	75	82	85	86	86	84	81	80	74	76	74	69	61	53	
51	6/21	50 cal Blank	60	T1751	6	94	34	59	67	70	72	73	76	78	79	80	79	79	79	77	76	76	74	71	74	81	85	86	86	84	81	80	78	74	74	70	65		
51	6/21	50 cal Blank	60	T1751	10	93	37	58	67	70	71	73	74	77	79	77	79	77	78	76	76	76	73	69	74	80	84	85	85	82	80	79	77	75	73	70	68		
51	6/21	50 cal Blank	60	T1752	2	107	35	52	61	64	67	70	71	73	74	77	77	79	92	92	77	81	80	77	79	86	98	105	94	87	82	80	79	77	74	70	61	65	65
51	6/21	50 cal Blank	60	T1752	6	107		53	60	63	67	70	71	73	74	76	77	79	91	91	77	81	82	77	79	85	98	106	93	86	81	79	78	76	71	71			61
51	6/21	50 cal Blank	60	T1752	10	106		51	59	62	65	67	70	72	73	75	76	78	90	90	76	80	80	77	78	85	96	105	92	84	80	79	77	75	71	67	61		
57	5/31	50 cal Blank	60	T1384	3	97	34	38	45	55	55	63	67	65	66	73	70	64	68	70	80	73	67	68	74	81	93	93	86	85	83	80	72	73	74	71	64	65	68
57	5/31	50 cal Blank	60	T1384	5	97	38	42	50	56	56	63	68	64	65	74	71	64	68	70	80	73	67	69	74	81	93	92	85	83	82	78	68	73	67	67	63	63	62
57	5/31	50 cal Blank	75	T1385	3	97	34	38	45	55	55	63	67	64	65	73	69	64	66	69	80	73	66	67	74	81	93	93	85	84	83	80	72	74	74	63	68	64	67
57	5/31	50 cal Blank	75	T1385	5	96	36	40	49	56	55	62	66	63	64	73	71	64	66	69	79	72	66	68	73	80	92	92	84	83	80	78	67	73	67	67	64	64	63
57	5/31	50 cal Blank	60	T1387	3	88	45	57	66	69	72	73	75	77	75	76	78	76	74	74	73	74	73	72	74	80	92	75	72	69	64	61	50	52	49	41	42		40
57	5/31	50 cal Blank	60	T1394	3	108	58	61	65	66	71	74	76	77	73	79	84	84	79	79	78	83	79	92	81	83	87	99	107	88	81	76	72	68	71	66	66	65	71
57	5/31	50 cal Blank	60	T1394	6	108	54	56	60	63	65	71	75	77	74	73	79	79	76	78	78	84	79	93	82	84	87	98	107	87	81	75	71	69	66	58	53	53	63
57	5/31	50 cal Blank	75	T1395	4	107	56	60	63	65	68	72	76	78	76	78	82	82	78	77	76	82	78	92	81	83	86	99	106	86	80	75	73	71	67	63	64	65	67
57	5/31	50 cal Blank	75	T1395	7	108	58	60	65	66	70	73	77	78	77	79	83	83	79	78	79	83	78	92	82	83	87	99	107	87	81	74	73	70	65	62	51	52	58
57	5/31	50 cal Blank	90	T1396	3	82	25	44	55	60	63	66	68	70	71	72	72	73	72	70	67	66	64	63	66	68	68	67	64	62	58	53	46	40	40	37	41		
57	5/31	50 cal Blank	90	T1396	8	84	28	47	57	63	66	68	70	72	73	75	75	74	74	72	71	68	66	65	68	71	71	70	67	65	61	56	52	48	42	38			36
57	5/31	50 cal Blank	90	T1397	3	96	43	44	48	54	56	60	64	62	64	68	66	64	68	68	78	74	75	74	75	79	93	91	80	79	77	70	68	67	65	62	60	61	61
57	5/31	50 cal Blank	90	T1397	7	98	41	43	47	54	55	61	64	63	66	71	69	67	71	71	80	79	79	77	77	81	96	93	82	81	79	72	70	68	65	62	55	54	56
57	5/31	50 cal Blank	60	T1399	3	88	32	57	67	69	71	72	74	74	76	76	77	77	75	73	74	74	73	76	78	77	75	75	72	69	63	60	55	51	49	44	40	44	42
57	5/31	50 cal Blank	60	T1399	7	88	33	57	66	69	71	72	73	74	76	76	76	75	73	71	73	74	74	77	78	76	74	75	71	69	63	60	55	51	49	45	47		
57	5/31	50 cal Blank	60	T1400	4	85	31	53	62	65	68	70	71	72	74	74	74	74	73	71	71	70	70	74	75	75	73	73	70	67	62	58	52	49	40				37
57	5/31	50 cal Blank	60	T1400	8	86	31	54	63	66	68	70	72	73	74	75	74	75	73	71	71	71	71	74	75	74	73	74	70	68	64	59	54	49	44	40	49	46	45
57	5/31	50 cal Blank	90	T1402	3	85	39	52	61	64	67	69	71	71	73	73	75	74	73	73	73	72	71	71	73	72	72	72	70	67	62	57	53	49	46	39	45	42	45
57	5/31	50 cal Blank	90	T1402	6	85	40	52	61	65	67	70	71	71	73	74	75	74	73	73	74	73	71	72	73	72	72	73	70	68	62	58	54	50	44	44	30	44	44

	Date	Type		ID	Shot																																		Total
57	5/31	50 cal Blank	90	T1403	3	67	64	65	66	67	68	69	72	75	83	102	95	83	78	77	90	75	82	75	76	74	77	77	73	68	71	66	63	60	57	54	51	104
57	5/31	50 cal Blank	90	T1403	6	66	67	68	67	68	70	70	74	76	84	104	95	83	79	78	91	76	83	77	78	75	78	77	74	71	71	67	64	62	59	55	53	105
57	6/14	50 cal Blank	45	T912	3	60	64	58	63	64	67	70	74	85	86	84	81	83	79	71	77	79	81	82	82	75	85	78	74	70	70	67	64	62	62	55	54	96
57	6/14	50 cal Blank	45	T912	6	56	57	59	69	73	78	78	82	87	89	86	83	84	80	72	77	80	82	83	86	82	86	85	82	78	78	73	75	73	70	65	54	98
57	6/14	50 cal Blank	45	T913	3	73	67	64	72	69	76	79	83	89	85	86	90	84	81	85	85	82	90	82	79	79	86	86	83	75	80	69	71	67	73	65	54	107
57	6/14	50 cal Blank	45	T913	6	66	65	58	70	69	76	76	79	83	85	86	107	86	99	87	85	90	92	79	77	76	75	76	77	78	81	76	73	67	62	56	52	109
57	5/17	50 cal Blank	30	T822	2	58	57	74	70	76	79	80	82	84	87	88	107	87	101	88	84	92	81	80	78	80	78	82	76	80	82	77	72	67	61	58	52	101
60	5/17	50 cal Blank	30	T822	6	71	68	77	79	82	83	83	85	88	90	92	93	84	91	92	83	81	84	83	86	86	86	85	84	80	84	77	75	72	64	58	58	106
60	5/22	50 cal Blank	60	T581	2	58	57	53	59	61	66	68	66	68	61	75	77	65	74	68	59	61	59	68	61	61	64	65	63	55	57	52	52	47	47	37	20	83
60	5/22	50 cal Blank	60	T582	3	71	68	71	75	74	78	80	80	82	81	73	89	70	85	81	71	70	71	80	83	84	73	83	74	73	74	61	67	57	57	47	38	96
60	5/22	50 cal Blank	60	T582	7	57	59	67	71	74	78	78	80	83	82	86	90	72	86	82	72	72	76	82	84	84	74	84	75	74	75	61	57	54	57	47	38	96
60	5/22	50 cal Blank	60	T582	9	46	53	60	68	69	74	75	75	79	84	86	86	78	82	78	69	69	69	74	76	76	70	76	72	71	71	69	64	58	54	44	30	93
61	5/23	50 cal Blanks	60	T543	4	59	51	60	71	71	77	78	81	82	84	85	75	76	69	68	73	71	73	78	80	80	69	82	72	72	74	69	67	64	60	51	38	92
61	5/23	50 cal Blanks	60	T543	8	59	60	69	69	77	79	79	82	85	86	76	78	78	70	71	75	77	79	81	82	82	76	83	74	72	74	69	64	60	51	52	40	94
61	5/23	50 cal Blanks	60	T543	12	60	57	60	72	70	76	79	83	86	88	77	80	80	71	72	77	79	82	83	83	83	77	86	78	76	78	70	70	66	62	53	43	95
62	6/8	50 cal Blank	90	T1584	2	53	70	70	73	74	75	79	79	80	85	112	93	83	77	78	86	84	87	78	78	77	72	78	75	68	77	73	68	64	58	50	40	112
62	6/8	50 cal Blank	90	T1584	6	64	65	71	72	74	76	77	81	82	87	112	94	83	77	89	89	83	85	80	79	78	72	78	73	69	78	76	69	63	60	52	38	112
62	6/8	50 cal Blank	60	T1586	4	56	66	69	71	73	80	80	82	82	83	112	93	83	79	82	92	90	87	74	77	79	74	75	75	64	73	72	64	61	60	52	38	113
62	6/8	50 cal Blank	60	T1586	10	74	64	70	71	73	73	77	82	84	85	113	93	85	78	85	95	91	88	90	79	78	73	78	75	72	74	73	69	68	67	58	41	114
62	6/8	50 cal Blank	90	T1587	3	64		56	58	0	0	67	61	65	65	61	66	74	77	77	73	68	60	71	70	72	72	77	75	68	77	70	67	63	54	41		85
62	6/8	50 cal Blank	90	T1587	6	65		66	61	0	0	65	65	69	69	59	65	67	70	76	71	69	62	71	69	71	72	78	79	69	78	71	69	65	56	44		87
62	6/8	50 cal Blank	60	T1589	4	60	63	0	62	58	62	63	65	68	68	67	70	71	74	77	71	71	67	74	71	72	74	79	77	68	74	72	68	64	53	37		88
62	6/8	50 cal Blank	60	T1589	10	62	60	64	60	64	64	66	65	66	68	69	70	72	73	79	71	73	69	72	73	73	72	83	78	69	74	74	61	61	52	38		88
62	6/8	50 cal Blank	120	T1590	3	54	48	53	59	54	50	58	61	59	44	44	58	63	66	65	57	52	56	63	66	69	66	80	74	69	68	62	58	52	36	33		80
62	6/8	50 cal Blank	120	T1590	7	59	57	57	0	59	0	57	61	53	45	45	56	62	65	66	55	45	62	68	67	68	65	78	70	67	66	61	51	50	30	33		79
62	6/8	50 cal Blank	120	T1591	3		58	60	67	69	70	72	75	78	99	99	84	73	79	77	75	72	72	81	80	79	80	78	75	65	68	60	55	51	47	38		100
62	6/8	50 cal Blank	120	T1591	7	54	61	63	66	65	71	73	77	77	98	98	83	74	77	74	72	73	72	82	81	83	79	83	78	64	67	57	54	50	42	30		99
62	6/8	50 cal Blank	60	T1594	3		68	65	70	72	73	78	84	87	97	90	96	88	83	78	89	82	82	85	87	82	88	78	74	68	74	68	63	57	53	46	35	102
62	6/8	50 cal Blank	60	T1594	7	56	67	68	72	73	75	80	85	88	98	90	97	90	84	82	91	82	82	87	88	80	88	80	74	67	74	67	63	59	54	45	38	103
62	6/8	50 cal Blank	90	T1596	4	63	63	64	70	70	74	76	81	84	93	86	92	84	78	76	84	78	80	81	84	74	79	77	68	56	74	68	54	48	42	42	35	98
62	6/8	50 cal Blank	90	T1596	7	59	66	67	70	70	71	74	76	81	83	85	91	84	78	78	80	79	79	84	85	75	85	75	69	57	71	69	53	48	42	42	39	97

Group	Ammunition	Charge	Date	ID	#	(measurement columns →)																													Final
62	50 cal Blank	60	6/8	T1597	3	63	64		61	56	55	66	64	66	67	67	65	69	68	66	71	73	76	77	77	78	77	76	73	71	69	67	72	69	67	62	51	87
62	50 cal Blank	60	6/8	T1597	7	58	67		60	62	56	66	66	67	70	69	67	71	68	67	72	74	76	77	78	78	78	76	75	72	71	69	68	71	68	63	50	88
62	50 cal Blank	90	6/8	T1599	4	60	66		60	58	0	63	63	60	65	67	60	70	67	63	67	69	71	73	73	73	73	71	70	68	65	63	67	64	59	45	39	84
62	50 cal Blank	90	6/8	T1599	7	64	64		60	59	0	63	65	64	64	66	56	72	69	62	67	69	71	73	74	74	75	73	73	70	67	64	67	64	59	47	39	84
62	50 cal Blank	120	6/8	T1601	3	63	58		59	53	0	63	59	57	58	63	52	68	66	57	63	65	69	71	70	71	71	69	68	66	63	59	63	59	53	31	37	80
62	50 cal Blank	120	6/8	T1601	6	58	59		57	55	0	63	57	61	59	64	57	69	67	60	64	67	71	73	72	73	73	70	69	67	64	59	64	59	55	38	37	82
62	50 cal Blank	120	6/8	T1603	3	60	60	61	57	42	46	62	61	62	67	67	64	73	73	73	73	73	72	71	69	72	73	77	77	73	74	67	49	48	42	34	34	95
62.	50 cal Blank	120	6/8	T1603	6		64	52	55	40	71	73	61	67	69	69	63	74	74	73	69	69	69	68	67	73	74	72	73	77	74	67	51	49	42	34	42	95
71	50 cal Blank	15	6/12	T1948	3	80	77		77	71	71	73	84	86	88	91	84	87	86	85	85	86	87	86	86	88	88	87	90	91	92	83	85	81	79	80	47	103
71	50 cal Blank	15	6/12	T1948	6	79	75	68	85	84	85	88	84	87	92	91	84	87	87	86	86	86	86	88	88	89	90	91	92	96	85	84	83	79			103
71	50 cal Blank	15	6/12	T1951	3	79	71	79	77	81	83	81	80	80	80	80	78	77	77	79	77	78	81	82	80	90	91	92	92	90	77	77	71	72			106
71	50 cal Blank	15	6/12	T1951	6		76	79	71	84	80	81	83	85	80	80	79	77	77	77	77	76	76	73	72	82	82	90	90	90	76	72	72				106
71	50 cal Blank	30	6/12	T1953	3	71	76	77	84	80	84	84	80	83	81	81	79	79	82	81	74	72	74	72	70	82	83	93	94	90	80	76	69	70			107
71	50 cal Blank	30	6/12	T1953	7	74	78	77	80	78	86	84	83	81	80	81	75	75	82	82	72	71	72	70	69	82	84	93	94	90	79	76	69	70			107
71	50 cal Blank	30	6/12	T1955	3	74	79	74	83	83	86	84	84	83	83	84	83	83	75	74	73	75	66	65	64	77	78	94	94	93	78	74	65	64	53	40	103
71	50 cal Blank	30	6/12	T1955	7	71	72	67	80	82	83	84	84	82	81	80	82	82	74	73	76	74	63	62	63	76	77	94	93	93	77	72	65	63	52	43	103
71	50 cal Blank	60	6/12	T1957	3	68	71	72	77	76	77	76	77	77	74	74	75	73	75	73	70	69	68	70	72	75	77	83	85	81	69	68	60	60	49		94
71	50 cal Blank	60	6/12	T1957	6	66	68	70	77	76	78	75	76	73	72	72	75	73	73	75	67	65	63	68	70	74	76	81	86	81	68	66	59	59	44		93
71	50 cal Blank	60	6/12	T1958	3	68	72	59	75	78	78	76	77	65	69	69	64	63	74	74	65	65	65	65	68	73	74	78	80	81	66	63	58	55	34		99
71	50 cal Blank	60	6/12	T1958	6	65	69	69	72	70	77	76	76	62	68	70	63	63	69	70	65	65	65	59	65	70	71	80	80	81	65	59	58	55	34		99
71	50 cal Blank	15	6/12	T1960	3	69	80		76	85	86	83	85	87	92	94	87	89	82	82	85	86	87	87	86	89	89	92	94	93	83	82	81	80	48	40	104
71	50 cal Blank	15	6/12	T1960	6	81	85	74	85	86	89	86	88	91	93	95	89	91	83	82	88	89	91	91	90	93	94	93	95	90	86	83	83	78	51	43	106
71	50 cal Blank	30	6/12	T1962	3	77	83	78	83	85	85	84	86	83	82	82	83	83	84	84	74	73	82	82	80	84	85	88	91	91	76	73	76	73			101
71	50 cal Blank	30	6/12	T1962	6	80	81	77	81	81	86	85	84	82	82	82	81	81	84	84	75	72	77	65	79	82	83	87	90	89	74	71	72	70			100
71	50 cal Blank	15	6/12	T1964	3	73	80	72	85	86	88	86	88	85	88	82	81	85	82	80	73	79	76	77	79	80	81	83	88	91	96	98	102	103	74		116
71	50 cal Blank	15	6/12	T1964	6	83	79	75	81	86	87	87	86	85	88	82	81	84	79	77	78	79	74	76	77	85	87	83	91	91	98	104	104	104	63		117
71	50 cal Blank	30	6/12	T1966	3	79	78	78	81	81	81	81	82	83	81	81	84	84	77	77	76	77	77	76	77	81	84	88	91	91	97	104	116	117	72		117
71	50 cal Blank	30	6/12	T1966	6	78	79	78	80	82	81	82	83	85	85	86	80	79	84	81	75	76	77	76	76	76	77	86	88	88	96	103	115	116	67	51	116
71	50 cal Blank	60	6/12	T1968	3	69	71	74	78	78	76	79	79	70	70	70	77	78	78	80	70	70	73	73	73	77	78	84	90	96	83	77	68	59			108

						65	63	71	67	74	78	80	81	83	84	85	83	78	74	73	69	72	73	74	75	73	74	75	74	73	71	69	67	63	46	46	92
71	6/12	50 cal Blank	60	T1970	3	65	63	71	67	74	78	80	81	83	84	85	83	78	74	73	69	72	73	74	75	73	74	75	74	73	71	69	67	63	46	46	92
75	5/11	50 cal Blank	60	T789	3	58	65	72	72	76	78	81	81	84	88	88	87	86	82	80	78	71	72	75	75	75	75	75	72	72	70	67	64	59	49	36	95
75	5/11	50 cal Blank	60	T789	6	54	66	71	73	76	79	82	82	86	89	90	89	88	84	82	80	73	75	77	76	77	77	75	75	74	73	69	66	60	50	43	97
75	5/11	50 cal Blank	60	T789	9	53	62	68	75	77	80	82	83	86	90	91	90	88	85	82	80	75	76	77	77	76	76	76	75	73	72	70	66	61	52	41	98
75	5/18	50 cal Blank	15	T986	2	63	71	68	77	73	75	77	79	84	83	83	86	85	87	90	86	86	89	92	91	92	92	94	92	90	92	92	92	91	86	75	103
75	5/18	50 cal Blank	15	T986	5	51	63	68	68	72	73	79	79	85	82	83	87	85	87	90	87	88	91	92	93	93	92	94	94	94	94	94	94	91	88	78	105
75	5/18	50 cal Blank	15	T986	9	60	64	71	69	74	75	76	77	79	81	83	89	88	89	92	88	89	92	93	94	94	96	94	95	95	95	94	94	89	78	106
75	6/9	50 cal Blank	30	T1918	3		68	82	80	79	81	81	82	85	88	87	88	90	90	94	90	91	103	103	116	116	97	102	91	89	79	74	65	63	54	45	116
75	6/9	50 cal Blank	30	T1918	6	75	73	76	76	78	80	81	83	83	87	83	89	89	91	90	92	92	103	103	115	98	91	101	91	90	78	78	72	65	63	54	43	116
75	6/9	50 cal Blank	30	T1920	3	70	74	75	75	80	83	86	88	88	91	85	90	82	93	84	82	84	83	88	88	90	91	91	84	84	80	79	73					101
75	6/9	50 cal Blank	30	T1920	6	77	72	74	79	77	80	81	83	84	86	85	91	82	94	84	82	84	84	90	90	91	90	91	85	85	81	79	77	73	75	67	39	102
75	6/9	50 cal Blank	60	T1922	3	65	70	73	70	73	75	76	78	84	86	87	76	79	71	72	73	71	73	74	75	75	77	75	74	75	69	76	72	63	56	46	94
75	6/9	50 cal Blank	60	T1922	6	55	67	68	68	76	77	76	82	82	85	84	77	78	72	71	72	70	72	72	74	74	73	72	74	75	67	69	68	62	54	45	93
75	6/9	50 cal Blank	60	T1924	3	65	73	75	75	77	77	77	81	83	86	89	84	78	80	90	86	78	78	71	73	74	75	73	74	73	72	66	66	61	54	47	38	111
75	6/9	50 cal Blank	60	T1924	6	68	66	70	70	78	78	77	80	82	85	86	83	75	79	88	84	75	75	70	72	72	76	73	72	71	69	66	62	59	54	40	35	110
75	6/9	50 cal Blank	60	T1925	3	60	63	66	71	73	74	74	76	80	83	87	83	82	83	94	87	75	77	69	70	69	76	72	73	72	65	63	56	54	52	49	34	110
75	6/9	50 cal Blank	90	T1925	7	68	67	71	75	74	74	77	79	82	84	88	75	79	73	93	86	80	78	75	65	65	75	69	72	72	62	58	53	52	46	37	109
75	6/9	50 cal Blank	90	T1926	4	64	54	67	70	74	74	79	81	84	84	85	74	75	73	73	72	80	80	80	74	74	74	71	73	71	60	64	60	51	41	43	92
75	6/9	50 cal Blank	90	T1926	7	54	63	65	69	70	71	75	77	79	84	84	75	75	75	75	71	80	80	80	74	74	74	71	74	71	60	60	60	54	43	35	92
79	6/14	50 cal Blank	30	T1468	2	54	62	71	72	77	74	77	79	81	84	84	84	79	77	73	72	82	82	81	85	87	84	85	83	81	73	65	61	54	51	46	37	95
79	6/14	50 cal Blank	30	T1469	2	67	71	74	76	78	78	77	80	82	84	80	83	75	84	90	81	82	79	70	81	84	80	84	77	75	69	68	67	63	56	50	109
79	6/14	50 cal Blank	60	T1470	3	65	65	67	70	73	72	77	74	77	80	80	81	80	81	89	81	81	78	72	75	80	81	84	75	72	67	68	63	60	54	52	105
79	6/14	50 cal Blank	90	T1471	3	63	64	63	67	70	73	73	76	76	80	80	83	78	85	93	84	78	76	70	79	75	72	81	73	71	60	57	54	51	48	46	103
79	6/14	50 cal Blank	90	T1471	8	63	52	62	65	71	76	72	77	81	80	85	78	78	74	102	93	74	74	72	69	71	76	69	69	69	62	66	58	51	52	48	103
79	6/14	50 cal Blank	60	T1472	3	49	54	54	62	75	73	74	76	76	81	85	78	78	78	102	94	85	83	82	82	81	84	84	81	72	72	72	63	58	54	49	93
79	6/14	50 cal Blank	90	T1473	4	47	37	46	56	61	66	63	68	68	70	74	74	74	76	73	73	76	76	77	77	75	77	77	77	66	68	60	63	56	50	53	86
79	6/14	50 cal Blank	90	T1473	8	43	34	45	49	72	77	74	80	81	84	88	78	78	78	74	74	78	78	78	73	72	73	74	78	66	69	71	68	64	57	53	87
79	6/14	50 cal Blank	60	T1474	4	44		45	45	67	73	73	74	77	80	85	76	75	74	72	72	75	75	76	75	71	71	76	77	69	67	70	65	61	51	31	85
79	6/14	50 cal Blank	90	T1474	8		42	47	44	70	72	72	75	76	80	84	74	72	70	72	72	73	73	73	73	70	69	75	76	68	66	68	63	59	49	28	84
79	6/14	50 cal Blank	60	T1475	3	42	47	47	47	74	77	79	76	77	82	80	82	79	75	81	74	75	80	80	82	83	80	82	83	74	78	76	73	70	63	53	91
79	6/14	50 cal Blank	90	T1476	4	64	64	48	66	72	74	79	85	90	107	94	81	74	85	81	87	82	74	77	77	71	68	72	75	74	60	64	61	50	48	107

#	Date	Type	ID	Dur																																		
79	6/14	50 cal Blank	T1476	90	8	60	55	51	48	57	63	69	71	75	78	83	92	105	87	79	77	80	85	78	83	79	72	71	69	65	68	65	62	58	60	53	50	47	106
79	6/14	50 cal Blank	T1477	60	2	64	65	63	67	68	69	74	78	82	85	93	93	109	93	82	81	86	93	85	89	84	77	78	74	75	71	68	65	65	64	60	55	53	109
79	6/14	50 cal Blank	T1478	30	3	72	68	74	74	75	77	79	78	82	85	90	98	115	98	90	88	91	93	90	94	90	84	81	78	78	78	76	75	73	74	67	60	52	115
79	6/14	50 cal Blank	T1478	30	7	59	63	70	68	74	76	79	76	79	82	87	96	112	89	90	85	88	91	87	92	87	81	80	79	76	75	71	73	70	71	64	57	50	113
79	6/14	50 cal Blank	T1479	30	3	56	59	53	70	58	74	76	73	79	82	76	75	74	77	80	82	76	79	82	87	89	85	88	89	89	88	87	84	85	82	74	64	58	100
79	6/14	50 cal Blank	T1479	30	7	44	54	50	58	49	67	70	67	70	73	73	71	72	73	77	79	76	77	73	74	71	78	77	74	73	71	70	61	56	55	50	45	55	97
80	6/15	50 cal Blank	T922	60	3	67	65	69	67	71	72	73	74	78	82	84	100	95	84	80	78	81	79	78	74	72	79	76	75	73	71	71	72	67	69	67	49	43	101
80	6/15	50 cal Blank	T922	60	8	59	58	61	69	65	69	70	68	70	73	80	99	93	80	76	75	78	80	75	73	70	75	73	73	73	73	70	67	62	59	56	46	41	100
80	6/15	50 cal Blank	T923	60	3	53	57	65	63	64	70	74	68	68	76	78	78	78	72	73	71	76	79	77	79	74	73	71	71	68	68	67	67	63	59	48	59	27	89
80	6/15	50 cal Blank	T923	60	8	47	54	58	61	63	73	71	69	71	73	76	75	74	70	70	67	71	71	71	78	77	70	70	68	68	67	65	59	55	45	53	48	25	86
80	6/15	50 cal Blank	T926	60	3	65	64	65	69	67	75	78	75	78	78	89	104	99	86	82	81	82	86	80	84	81	78	73	78	69	69	69	66	63	59	62	56	49	106
80	6/15	50 cal Blank	T926	60	7	59	55	63	66	66	70	74	73	80	85	88	104	97	85	81	82	80	85	79	88	82	75	74	76	68	69	67	63	60	56	57	53	48	105
80	6/15	50 cal Blank	T927	75	4	64	65	65	66	70	73	77	74	83	87	87	106	98	86	83	80	81	85	76	87	81	76	73	74	68	70	70	65	61	56	54	50	51	107
80	6/15	50 cal Blank	T927	75	9	60	53	64	66	64	68	71	71	76	79	88	106	99	87	84	81	81	85	73	82	78	75	74	72	70	70	67	67	58	53	53	48	53	107
80	6/15	50 cal Blank	T928	60	2	48	55	60	60	64	68	71	71	80	84	86	82	82	77	77	71	74	83	70	80	78	73	70	76	68	70	68	63	58	57	47	57	30	93
80	6/15	50 cal Blank	T928	60	7	57	56	65	67	64	69	73	70	80	83	85	82	83	76	77	71	74	86	72	83	80	74	72	77	68	68	66	65	58	56	54	50	47	92
80	6/15	50 cal Blank	T929	75	4	55	53	63	67	69	71	75	76	77	83	85	79	79	75	72	69	72	81	71	80	76	72	71	73	63	65	63	59	55	52	51	48	27	90
80	6/15	50 cal Blank	T929	75	9	52	52	66	70	73	73	79	76	80	84	86	80	80	76	73	64	67	81	73	76	76	70	70	72	64	64	66	61	56	51	49	46	30	91
80	6/15	50 cal Blank	T930	90	4	54	53	70	66	70	74	77	77	81	83	83	79	79	73	72	62	65	73	72	82	74	71	70	71	60	61	64	61	57	54	50	46	26	90
80	6/15	50 cal Blank	T930	90	7	43	51	60	57	70	73	76	73	80	81	81	80	75	70	70	60	63	79	70	82	71	70	68	70	60	60	63	57	52	44	55	55	23	88
80	6/15	50 cal Blank	T931	90	4	64	62	67	63	77	77	80	78	84	86	84	83	83	71	71	66	71	87	69	88	82	71	68	71	66	67	66	63	55	52	51	47	45	102
80	6/15	50 cal Blank	T931	90	8	57	58	67	70	76	78	80	80	83	85	85	82	79	81	70	68	68	88	71	88	87	71	69	70	67	68	66	62	55	51	47	45	45	101
81	6/2	50 cal Blank	T1464	60	4	45	45	57	58	58	72	76	77	84	82	83	82	80	74	76	64	61	76	68	76	72	70	67	67	63	65	64	59	55	51	47	33	89
81	6/2	50 cal Blank	T1464	60	11	50	42	45	49	52	73	75	79	81	84	82	84	76	75	73	65	62	79	68	78	74	74	73	74	66	67	64	59	57	58	59	37	91
81	6/2	50 cal Blank	T1464	60	18	50	41	42	49	52	75	73	77	81	83	80	81	74	74	74	63	60	76	65	76	73	73	72	74	64	65	61	57	58	56	58	41	90
81	6/5	50 cal Blank	T1006	30	4	61	47	57	60	63	66	69	71	72	72	83	95	101	82	79	75	68	83	76	84	79	88	85	87	73	73	73	71	67	63	54	45	60	98
81	6/5	50 cal Blank	T1006	30	10	55	45	50	61	63	63	68	65	72	72	82	93	100	80	76	76	68	82	71	85	78	89	85	86	72	74	70	67	58	55	51	47	58	98
83	6/1	50 cal Blank	T1805	30	3	73	73	72	77	72	78	79	80	87	94	111	107	93	90	88	88	89	97	85	90	85	85	79	85	77	76	73	70	67	61	58	70		113
83	6/1	50 cal Blank	T1805	30	10	67	75	70	73	75	78	80	82	87	94	111	107	93	90	88	88	88	97	85	90	85	85	80	83	76	77	71	69	61	69	58	40		113

						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
83	6/1	50 cal Blank	30	T1807	3	71	61	72	76	80	82	84	86	89	92	92	92	90	90	93	93	87	80	83	84	85	86	87	88	86	89	89	88	84	82	74	45	103
83	6/1	50 cal Blank	30	T1807	10	67	61	78	77	81	82	85	87	90	91	90	91	90	90	93	93	87	80	83	84	85	86	85	86	85	87	87	85	83	80	72	46	103
83	6/1	50 cal Blank	60	T1809	4	60		71	68	76	79	80	84	87	89	92	92	89	88	85	81	74	74	76	76	77	78	80	77	78	79	80	80	76	69	60	34	99
83	6/1	50 cal Blank	60	T1809	8	0			65	70	74	77	79	80	85	87	90	89	86	84	80	76	76	73	74	77	77	77	78	77	79	79	76	74	73	58		97
83	6/1	50 cal Blank	60	T1810	4	65	63	74	75	76	77	77	82	86	88	93	93	92	90	92	81	79	82	81	83	84	83	84	81	76	79	79	75	70	67	52	35	112
83	6/1	50 cal Blank	60	T1810	9	63	69	72	73	74	77	80	79	88	86	91	92	91	88	90	81	77	80	78	83	82	86	81	80	68	72	70	70	67	61	51		110
83	6/1	50 cal Blank	30	T1813	4	65	60	75	74	75	78	79	80	85	91	105	109	90	90	90	84	89	90	92	88	88	83	82	77	82	75	74	72	75	63	54	39	113
83	6/1	50 cal Blank	30	T1813	8	73	64	70	73	74	80	81	82	87	82	109	111	91	91	87	86	99	88	84	81	78	79	80	77	84	76	77	78	80	63	55		114
83	6/1	50 cal Blank	60	T1814	8	73	68	74	70	67	74	79	82	82	82	100	102	86	87	80	70	87	83	70	71	72	67	60	58	67	64	63	58	60	50	44	0	104
83	6/1	50 cal Blank	30	T1815	4	71	62	72	77	79	80	82	85	89	94	94	94	90	93	79	83	94	92	82	84	84	85	83	81	81	80	83	84	82	75	68	45	102
83	6/1	50 cal Blank	30	T1815	8			75	76	77	76	83	88	90	95	95	95	91	90	92	85	95	94	84	83	83	84	84	83	83	79	85	84	84	76	68	45	103
83	6/1	50 cal Blank	60	T1816	3	73	74	71	75	80	86	91	89	89	89	107	106	73	78	88	82	90	85	75	76	77	68	68	62	70	75	70	68	55	45			98
83	6/1	50 cal Blank	60	T1817	4			66	71	69	74	79	84	90	94	109	108	74	84	78	80	92	87	78	76	75	77	74	72	71	70	76	74	63	54	45	34	94
83	6/1	50 cal Blank	60	T1817	9	62		67	64	71	74	81	86	91	95	99	99	87	80	81	92	92	89	82	74	76	77	77	76	75	76	79	74	72	63	54	34	96
83	6/1	50 cal Blank	60	T1818	5	70	54	72	74	74	76	78	81	84	89	107	107	89	85	82	81	89	82	75	75	76	72	72	70	72	70	75	75	79	55	47	38	110
83	6/1	50 cal Blank	60	T1818	9	64	68	74	72	75	77	79	82	85	90	109	108	92	87	84	78	92	85	80	78	78	77	78	72	78	71	74	73	73	59	51	33	112
86	6/6	50 cal Blank	60	T1296	2	76	73	75	76	80	82	84	80	77	87	99	108	87	82	81	80	92	81	82	76	74	69	69	68	69	79	70	70	71	63	58	54	109
86	6/6	50 cal Blank	60	T1296	4	66	69	66	68	74	76	77	81	81	87	99	108	87	81	83	82	81	83	80	78	81	69	69	69	68	74	70	70	69	65	63	56	109
86	6/6	50 cal Blank	60	T1298	2	40		47	51	50	54	59	60	66	68	70	70	70	66	72	71	71	74	77	78	78	76	76	65	67	58	56	56	57	54	62	54	87
86	6/6	50 cal Blank	90	T1300	2	48	47	45	43	46	48	52	55	59	62	61	57	70	57	64	71	62	72	73	74	72	71	72	68	65	57	57	56	51	56	62	42	83
86	6/6	50 cal Blank	90	T1300	5			40	38	42	47	52	56	61	65	63	59	57	58	67	73	67	70	68	75	69	70	70	58	60	53	55	57	56	50	56	50	86
86	6/6	50 cal Blank	120	T1302	3	37		43	38	41	47	50	56	60	60	56	56	59	54	69	75	64	71	66	68	68	73	77	63	64	59	59	54	54	43	55	22	78
86	6/6	50 cal Blank	120	T1302	7	41		39		42	45	49	54	56	61	62	57	56	54	71	73	77	72	70	69	69	66	76	66	64	58	63	54	54	43	54	26	78
86	6/6	50 cal Blank	90	T1303	2	66	62	61	61	66	67	69	71	75	82	93	100	78	71	76	74	77	78	77	68	70	68	70	67	77	76	58	56	51	44	62	40	101
86	6/6	50 cal Blank	90	T1303	6	69	64	60	62	68	69	71	74	78	82	94	102	83	76	82	77	79	79	72	72	72	70	71	72	86	77	60	57	54	46	59	44	103
86	6/6	50 cal Blank	120	T1305	3	68	66	67	62	66	72	74	75	78	83	93	98	82	75	70	67	76	75	72	71	68	72	67	65	79	66	58	53	46	39	56	36	100
86	6/6	50 cal Blank	120	T1305	7	62	55	53	57	66	71	75	75	78	83	94	99	82	76	71	69	70	77	75	73	65	71	66	57	71	63	55	53	47	41	50	43	101
86	6/6	50 cal Blank	60	T1310	2	66	64	64	64	67	70	73	74	78	82	99	82	88	76	85	71	78	70	76	85	76	78	76	67	76	76	67	58	48	46	43	22	103
86	6/6	50 cal Blank	60	T1310	6	60	56	59	57	63	66	72	72	79	83	94	83	89	77	86	71	76	72	82	86	77	81	77	70	77	68	59	55	51	44	48	26	104
86	6/6	50 cal Blank	120	T1312	3	70	66	66	66	68	68	72	75	78	80	92	87	92	82	95	80	75	77	87	92	80	87	82	80	82	81	65	59	55	49	57	48	107
86	6/6	50 cal Blank	120	T1312	7	74	63	62	66	69	69	75	76	79	83	87	94	94	83	96	81	76	81	88	94	76	81	79	83	88	87	71	68	62	59	60	58	109

Group	Date	Type	Num	ID	Round	Data values (left→right as printed)
86	6/6	50 cal Blank	60	T1313	2	78, 20, 42, 52, 57, 60, 63, 64, 67, 68, 69, 70, 70, 69, 67, 63, 60, 54, 52, 55, 57, 58, 59, 61, 60, 57, 52, 49, 43, 43, 44, 37
86	6/6	50 cal Blank	60	T1313	6	79, 26, 42, 53, 59, 61, 64, 66, 67, 68, 70, 71, 71, 70, 67, 64, 61, 55, 53, 56, 57, 59, 62, 62, 61, 57, 52, 50, 45, 42, 34, 46
86	6/6	50 cal Blank	120	T1315	3	85, 31, 57, 66, 69, 71, 72, 73, 74, 74, 75, 76, 76, 74, 72, 71, 69, 64, 63, 72, 69, 68, 68, 68, 66, 64, 58, 53, 51, 46, 34, 46, 42, 37
86	6/6	50 cal Blank	120	T1315	7	87, 34, 59, 68, 71, 72, 74, 75, 76, 77, 77, 77, 75, 73, 71, 74, 66, 66, 64, 74, 71, 70, 70, 70, 68, 66, 60, 56, 53, 48, 44, 43, 40, 47
86	6/6	50 cal Blank	90	T1316	2	81, 26, 49, 60, 63, 66, 67, 69, 70, 70, 71, 72, 72, 70, 68, 65, 63, 56, 57, 61, 61, 62, 65, 65, 63, 60, 54, 51, 45, 42, 45, 43, 42
86	6/6	50 cal Blank	90	T1316	6	84, 29, 52, 62, 67, 68, 69, 72, 73, 73, 74, 75, 74, 71, 70, 68, 67, 58, 61, 65, 65, 65, 68, 68, 67, 63, 57, 52, 49, 36, 36, 41, 33
86	6/6	50 cal Blank	90	T1317	3	102, 50, 52, 54, 57, 61, 64, 67, 70, 73, 75, 75, 73, 74, 79, 80, 71, 66, 56, 57, 73, 80, 66, 73, 75, 71, 68, 66, 65, 63, 61, 62
86	6/6	50 cal Blank	90	T1317	6	104, 52, 54, 60, 65, 67, 70, 73, 75, 75, 75, 76, 75, 79, 80, 82, 73, 69, 57, 60, 75, 80, 66, 75, 78, 75, 69, 67, 66, 66, 62
87	5/17	50 cal Blanks	30	T489	5	97, 79, 79, 85, 87, 86, 87, 85, 85, 86, 85, 84, 84, 86, 82, 79, 76, 73, 74, 85, 76, 76, 67, 73, 80, 78, 76, 65, 57, 61, 48, 57
87	5/17	50 cal Blanks	30	T489	9	97, 51, 76, 83, 84, 85, 86, 85, 85, 85, 85, 83, 84, 84, 82, 80, 76, 72, 70, 83, 84, 76, 72, 72, 79, 76, 72, 63, 61, 62, 51, 57
87	5/17	50 cal Blanks	30	T489	13	98, 52, 77, 84, 85, 86, 87, 86, 86, 87, 86, 84, 85, 83, 81, 78, 77, 74, 73, 84, 85, 76, 74, 77, 80, 79, 73, 67, 65, 57
88	5/12	50 cal Blanks	60	T321	2	84, 30, 51, 61, 64, 67, 69, 70, 72, 74, 75, 75, 73, 71, 68, 66, 61, 71, 57, 56, 61, 68, 65, 69, 70, 67, 61, 51, 45, 42, 33
88	5/12	50 cal Blanks	60	T321	5	85, 46, 52, 62, 65, 68, 71, 73, 73, 75, 76, 76, 74, 72, 69, 66, 65, 72, 58, 57, 63, 69, 66, 73, 71, 68, 62, 54, 48, 47, 40
88	5/12	50 cal Blanks	60	T321	7	86, 30, 52, 63, 66, 68, 70, 74, 75, 76, 77, 77, 75, 73, 69, 66, 67, 73, 59, 57, 63, 67, 66, 73, 72, 69, 63, 54, 51, 48, 35
88	6/13	50 cal Blank	30	T1715	3	96, 42, 71, 79, 82, 83, 82, 85, 85, 86, 85, 84, 84, 80, 74, 73, 74, 74, 72, 79, 84, 84, 71, 74, 80, 77, 76, 71, 67, 71
88	6/13	50 cal Blank	30	T1715	7	97, 52, 72, 79, 82, 83, 83, 86, 87, 87, 86, 85, 85, 84, 77, 71, 75, 76, 71, 79, 84, 82, 71, 75, 84, 79, 77, 72, 67, 70
88	6/13	50 cal Blank	30	T1717	3	111, 58, 66, 70, 73, 77, 78, 78, 79, 88, 89, 84, 87, 81, 73, 72, 75, 77, 81, 89, 94, 78, 86, 81, 79, 76, 73, 63, 62
88	6/13	50 cal Blank	30	T1717	7	113, 60, 67, 72, 74, 77, 79, 79, 79, 90, 84, 86, 83, 75, 74, 76, 84, 90, 94, 77, 86, 83, 78, 72, 67, 68, 72
88	6/13	50 cal Blank	60	T1718	3	109, 51, 60, 65, 68, 73, 74, 71, 72, 80, 76, 76, 75, 75, 74, 80, 84, 92, 92, 78, 87, 80, 75, 70, 63, 72, 73
88	6/13	50 cal Blank	60	T1718	7	110, 52, 64, 66, 70, 72, 73, 72, 70, 74, 77, 74, 75, 73, 78, 84, 84, 92, 80, 88, 82, 78, 71, 67, 70
88	6/13	50 cal Blank	60	T1719	3	90, 38, 60, 73, 76, 77, 78, 80, 80, 81, 81, 80, 80, 78, 78, 74, 76, 71, 70, 72, 72, 65, 69, 66, 67, 65, 63
88	6/13	50 cal Blank	60	T1719	7	91, 60, 70, 74, 76, 78, 78, 80, 81, 83, 81, 83, 79, 78, 78, 75, 79, 71, 71, 72, 66, 66, 67, 65, 68, 69, 72
107	5/4	50 cal Blank	45	T1000	2	94, 42, 58, 66, 70, 72, 72, 74, 74, 80, 84, 84, 80, 74, 74, 75, 86, 97, 85, 71, 84, 72, 73, 77, 64, 50, 47
107	5/4	50 cal Blank	45	T1000	5	94, 31, 47, 57, 62, 71, 72, 74, 75, 78, 79, 76, 83, 75, 75, 75, 86, 98, 86, 71, 84, 70, 75, 78, 66, 57, 57
107	5/4	50 cal Blank	45	T1000	7	90, 30, 47, 53, 58, 64, 67, 70, 70, 70, 73, 70, 75, 70, 68, 71, 87, 98, 81, 77, 80, 73, 78, 74, 62, 45, 57
107	5/8	50 cal Blank	90	T823	4	91, 28, 42, 49, 55, 60, 64, 66, 69, 70, 70, 70, 71, 71, 69, 72, 88, 98, 84, 70, 82, 80, 78, 77, 66, 50, 49
107	5/8	50 cal Blank	90	T823	7	91, 27, 38, 51, 57, 62, 63, 64, 69, 72, 72, 72, 72, 71, 71, 74, 86, 98, 84, 72, 84, 82, 78, 74, 71, 49, 45
107	5/8	50 cal Blank	90	T823	10	93, 27, 39, 51, 62, 63, 65, 66, 68, 73, 73, 74, 73, 72, 72, 76, 86, 98, 86, 73, 86, 84, 78, 77, 73, 52, 49
107	5/11	50 cal Blanks	60	T533	8	94, 46, 51, 52, 59, 64, 69, 70, 76, 77, 79, 78, 74, 74, 75, 76, 87, 78, 83, 74, 86, 84, 78, 74, 76, 61, 56

#	Date	Type		TestID	Data values (read in column order)
107	5/15	50 cal Blank	90	T1081	80, 27, 45, 55, 60, 62, 66, 66, 68, 70, 71, 72, 72, 71, 68, 66, 64, 59, 53, 50, 53, 55, 56, 58, 58, 55, 52, 51, 52, 56, 60, 62, 61, 60, 62, 7
107	5/15	50 cal Blank	90	T1081	81, 26, 45, 55, 60, 62, 65, 66, 69, 71, 72, 73, 73, 72, 69, 66, 65, 60, 53, 50, 54, 55, 57, 58, 58, 56, 54, 53, 54, 56, 60, 62, 53, 51, 54, 9
107	5/15	50 cal Blank	90	T1081	82, 28, 46, 57, 61, 64, 66, 67, 70, 71, 73, 73, 74, 73, 70, 69, 65, 60, 55, 52, 55, 57, 58, 60, 59, 57, 55, 53, 51, 56, 54, 54, 56, 55, 59, 12
107	6/9	50 cal Blank	45	T1904	108, 50, 53, 58, 60, 64, 68, 70, 71, 74, 77, 77, 85, 89, 94, 90, 85, 87, 88, 106, 101, 87, 93, 85, 89, 90, 80, 79, 74, 77, 71, 68, 0, 3
107	6/9	50 cal Blank	45	T1904	108, 40, 54, 57, 57, 60, 64, 65, 68, 71, 74, 78, 85, 88, 94, 84, 88, 84, 89, 106, 101, 86, 93, 83, 89, 86, 79, 78, 75, 78, 73, 70, 0, 7
107	6/9	50 cal Blank	45	T1906	96, 50, 66, 63, 69, 72, 74, 76, 77, 78, 85, 84, 82, 80, 76, 79, 82, 83, 86, 79, 77, 72, 83, 86, 83, 83, 77, 76, 72, 77, 64, 0, 3
107	6/9	50 cal Blank	45	T1906	96, 43, 57, 57, 66, 70, 72, 71, 74, 75, 78, 84, 83, 78, 81, 77, 76, 76, 87, 79, 77, 73, 83, 82, 86, 87, 81, 79, 73, 73, 73, 7
107	6/9	50 cal Blank	60	T1908	91, 44, 52, 57, 63, 66, 68, 71, 71, 76, 78, 76, 78, 82, 81, 78, 76, 77, 87, 83, 76, 70, 85, 86, 83, 82, 80, 76, 64, 73, 3
107	6/9	50 cal Blank	60	T1908	94, 48, 57, 53, 57, 65, 68, 71, 73, 74, 78, 79, 80, 81, 82, 84, 80, 80, 78, 83, 84, 73, 73, 86, 87, 85, 84, 81, 80, 67, 75, 69, 7
107	6/9	50 cal Blank	60	T1910	106, 42, 50, 53, 57, 59, 64, 67, 68, 69, 72, 76, 77, 79, 79, 85, 90, 95, 88, 86, 85, 81, 86, 88, 85, 87, 81, 79, 78, 76, 72, 70, 56, 3
107	6/9	50 cal Blank	60	T1910	109, 34, 44, 50, 54, 57, 57, 66, 68, 72, 75, 79, 83, 83, 84, 88, 92, 97, 88, 89, 84, 81, 89, 93, 88, 89, 84, 83, 79, 77, 74, 72, 7
107	6/9	50 cal Blank	90	T1911	98, 31, 44, 51, 55, 56, 56, 64, 66, 69, 69, 72, 72, 77, 78, 72, 85, 88, 85, 81, 78, 75, 81, 94, 93, 88, 78, 78, 77, 78, 72, 74, 67, 61, 3
107	6/9	50 cal Blank	90	T1911	99, 30, 43, 50, 56, 56, 56, 64, 68, 70, 68, 70, 78, 74, 74, 74, 86, 89, 82, 78, 79, 75, 82, 95, 94, 89, 81, 79, 76, 77, 72, 71, 67, 60, 7
107	6/9	50 cal Blank	90	T1912	88, 30, 39, 42, 42, 61, 56, 64, 69, 71, 73, 73, 75, 73, 74, 74, 73, 74, 75, 79, 79, 72, 76, 66, 65, 72, 76, 67, 63, 65, 69, 74, 73, 59, 3
107	6/9	50 cal Blank	90	T1912	88, 30, 38, 42, 56, 61, 61, 64, 64, 70, 71, 73, 75, 75, 75, 75, 74, 75, 76, 80, 79, 73, 77, 65, 65, 73, 79, 69, 68, 72, 75, 77, 58, 7
120	6/21	50 cal Blank	30	T1725	113, 41, 56, 64, 66, 71, 75, 78, 81, 81, 83, 82, 85, 91, 94, 85, 89, 98, 96, 88, 86, 85, 81, 80, 82, 84, 80, 79, 77, 76, 74, 75, 78, 2
120	6/21	50 cal Blank	30	T1725	115, 46, 55, 65, 69, 73, 75, 79, 81, 84, 84, 86, 94, 88, 92, 97, 98, 88, 87, 88, 80, 81, 81, 81, 81, 80, 76, 74, 70, 72, 74, 70, 78, 7
120	6/21	50 cal Blank	30	T1725	112, 49, 53, 62, 66, 70, 74, 80, 85, 86, 90, 96, 98, 96, 83, 82, 85, 90, 94, 90, 80, 77, 76, 79, 77, 73, 74, 72, 77, 73, 77, 74, 13
120	6/21	50 cal Blank	30	T1727	100, 44, 69, 76, 70, 76, 80, 84, 86, 86, 89, 92, 99, 101, 95, 91, 93, 96, 95, 99, 87, 85, 86, 83, 82, 77, 79, 80, 83, 81, 77, 76, 69, 2
120	6/21	50 cal Blank	30	T1727	102, 44, 70, 78, 81, 79, 78, 81, 88, 89, 88, 81, 83, 94, 91, 90, 96, 98, 95, 98, 91, 88, 83, 80, 85, 83, 82, 81, 81, 77, 77, 69, 7
120	6/21	50 cal Blank	30	T1727	99, 68, 76, 78, 81, 82, 83, 82, 86, 85, 85, 88, 94, 92, 95, 105, 98, 91, 88, 91, 95, 90, 96, 93, 89, 84, 88, 81, 83, 81, 70, 13
120	6/21	50 cal Blank	30	T1729	102, 49, 72, 79, 81, 82, 83, 84, 86, 86, 86, 90, 90, 86, 83, 91, 89, 95, 93, 96, 90, 92, 89, 91, 82, 82, 83, 78, 81, 80, 72, 2
120	6/21	50 cal Blank	30	T1729	106, 49, 76, 83, 85, 86, 88, 90, 91, 90, 86, 84, 88, 86, 84, 90, 95, 96, 96, 99, 92, 84, 84, 86, 80, 79, 80, 79, 74, 73, 74, 7
120	6/21	50 cal Blank	30	T1730	105, 44, 69, 76, 62, 70, 79, 76, 75, 76, 79, 89, 80, 79, 82, 85, 90, 101, 105, 94, 84, 83, 85, 83, 81, 77, 80, 82, 70, 70, 2
120	6/21	50 cal Blank	30	T1730	109, 44, 70, 78, 73, 73, 75, 77, 79, 79, 82, 93, 84, 88, 85, 88, 93, 98, 103, 98, 88, 83, 84, 80, 81, 78, 80, 83, 77, 77, 69, 7
120	6/21	50 cal Blank	60	T1731	68, 61, 66, 67, 65, 65, 65, 75, 85, 75, 75, 85, 91, 89, 91, 95, 91, 85, 89, 84, 82, 84, 80, 81, 80, 78, 76, 72, 72, 58, 55
120	6/21	50 cal Blank	60	T1731	72, 49, 59, 66, 66, 66, 69, 74, 86, 75, 75, 86, 91, 93, 91, 95, 91, 85, 91, 88, 84, 88, 81, 84, 81, 80, 74, 74, 73, 65, 55
120	6/21	50 cal Blank	60	T1732	102, 52, 76, 83, 63, 70, 68, 72, 76, 73, 74, 77, 78, 77, 78, 84, 86, 84, 83, 86, 82, 86, 84, 82, 80, 78, 76, 76, 68, 63, 60
120	6/21	50 cal Blank	60	T1732	94, 53, 64, 64, 67, 72, 74, 74, 76, 72, 76, 79, 86, 86, 80, 86, 86, 83, 85, 84, 80, 79, 78, 74, 74, 74, 72, 66, 64, 63
126	6/13	50 cal Blank	15	T1693	105, 44, 54, 54, 70, 73, 71, 72, 79, 80, 79, 82, 85, 80, 89, 84, 83, 91, 94, 97, 93, 87, 84, 83, 90, 85, 86, 81, 75, 71, 68, 60, 3
126	6/13	50 cal Blank	15	T1693	109, 44, 57, 57, 67, 71, 73, 72, 83, 85, 82, 81, 83, 85, 83, 91, 89, 96, 93, 96, 93, 88, 83, 86, 88, 90, 85, 81, 77, 73, 71, 58, 8

Area	Date	Type	Delay	TestID	Round																																	
126	6/13	50 cal Blank	30	T1694	4	71	70		71		72	78	78	83	82	91	103	107	92	86	83	89	82	91	92	85	83	86	81	81	78	75	71	70	67	64	57	109
126	6/13	50 cal Blank	15	T1696	3	72	76	68	60		76	77	78	78	84	87	82	81	82	81	87	83	84	88	90	91	87	88	94	93	90	89	88	82	55	103		
126	6/13	50 cal Blank	15	T1696	8	68	76	73		60	73	74	75	78	86	86	79	79	78	86	86	82	80	88	86	88	90	90	94	93	90	86	84	58	102		
126	6/13	50 cal Blank	30	T1697	4		67	66	60	71	72	74	75	77	77	80	76	73	76	77	77	84	82	87	84	80	79	80	90	90	89	82	84	46	96			
126	6/13	50 cal Blank	60	T1698	4	64			69		67	66	56	65	68	71	70	67	63	80	72	75	76	87	82	80	72	73	85	85	80	73	46	41	89			
126	6/13	50 cal Blank	60	T1698	7	63	50	0		53	74	75	66	66	65	70	69	62	0	70	71	74	77	78	75	81	75	69	84	81	72	41	35	89				
126	6/13	50 cal Blank	60	T1698	10	60	61	0		57	72	76	74	71	68	71	69	68	66	70	71	77	78	77	79	78	77	66	84	81	76	35	39	87				
126	6/13	50 cal Blank	60	T1699	1	59	62	0	61	57	77	74	70	68	81	83	68	70	66	75	64	82	77	78	77	77	75	71	73	74		104					
126	6/13	50 cal Blank	60	T1699	5	74	74	71	65	65	79	79	81	79	82	84	79	82	83	75	64	81	75	78	76	77	75	75	82	79	82	49	34	105			
126	6/13	50 cal Blank	60	T1699	8	72	74	69	64	64	80	80	83	82	81	84	80	83	92	75	64	83	76	78	76	77	81	80	81	77	85	50	34	105			
126	6/13	50 cal Blank	60	T1699	8	72	74	67	70	67	80	76	79	79	83	83	80	89	85	77	64	83	76	79	77	78	82	80	80	82	91	50	34	105			
126	6/13	50 cal Blank	15	T1705	2	77	77	67	76	75	80	82	84	87	87	93	87	91	85	90	77	90	84	84	83	78	84	84	86	87	93	68	46	112			
126	6/13	50 cal Blank	15	T1705	6	73	75	68	75	73	79	81	82	79	85	91	84	85	81	88	78	88	81	82	78	76	89	84	85	77	78	65	44	110			
126	6/13	50 cal Blank	30	T1706	2	76	76	65	73	71	81	81	82	77	84	91	77	85	82	86	82	84	75	75	73	76	87	80	82	76	76	55	41	108			
126	6/13	50 cal Blank	30	T1706	6	79	81		71	71	83	84	85	85	88	92	85	84	81	94	81	86	84	84	84	84	94	84	86	76	76	63	55	44	116		
126	6/13	50 cal Blank	15	T1708	2	74	83	76	76	76	81	84	85	85	88	87	92	85	88	94	91	91	92	95	92	91	93	93	94	74	74	66	44	104			
126	6/13	50 cal Blank	15	T1708	6	75	77	74	73	73	77	78	83	80	83	87	84	87	82	87	81	92	90	95	94	94	91	93	86	80	82	58	56	104			
126	6/13	50 cal Blank	30	T1709	2	69	67	66	59		78	75	77	74	80	81	72	84	75	84	81	91	91	91	80	92	92	80	86	80	78	88	80	92			
126	6/13	50 cal Blank	30	T1709	6	68	69	74	74		80	76	77	80	82	88	80	86	81	89	80	80	80	92	80	80	77	78	78	78	77	78	68	52	100		
126	6/13	50 cal Blank	60	T1710	3	55	0	64	64	58	79	79	82	81	85	88	71	88	70	91	81	81	81	82	80	79	82	79	85	79	72	61	37	90			
126	6/13	50 cal Blank	60	T1710	7	59	49	71	55	57	74	77	78	84	92	88	72	85	67	94	86	86	86	95	84	80	81	86	90	78	69	60	37	90			
126	6/13	50 cal Blank	60	T1711	3	76	75	69	75	69	74	76	77	78	87	93	73	91	71	94	81	87	86	92	86	77	74	82	91	79	68	58	41	111			
126	6/13	50 cal Blank	60	T1711	7	75	78	74	75	69	75	77	73	78	87	88	83	81	81	92	77	94	86	90	80	75	72	76	77	81	68	58	40	112			
133	6/14	50 cal Blank	30	T914	2	78	80	71	64	66	79	78	77	81	88	88	81	82	81	85	80	82	84	85	84	83	75	85	82	75	72	67	61	72	58	99	
133	6/14	50 cal Blank	30	T914	5	79	81	75	63	64	82	79	80	84	92	90	80	81	86	85	84	84	84	83	84	84	80	85	83	84	80	75	66	73	52	100	
133	6/14	50 cal Blank	30	T915	2	79	82	74	69	69	81	83	81	86	100	110	90	89	84	86	81	84	80	81	80	76	81	84	84	81	81	69	67	66	50	111	
133	6/14	50 cal Blank	30	T915	5	74	77	73	63	64	77	81	86	85	101	111	83	92	86	87	74	84	83	75	77	77	67	83	80	73	73	65	61	67	49	112	
133	6/14	50 cal Blank	60	T916	1	75	77	64	57	67	73	79	82	83	107	96	90	91	82	85	77	83	74	71	73	72	76	80	76	72	70	61	62	54	50	108	
133	6/14	50 cal Blank	60	T917	2	68	75	62	58	69	70	80	80	84	86	85	84	73	80	83	74	74	73	74	74	74	70	77	74	70	69	67	64	59	49	93	

Loc	Date	Sample	N	ID	Rep	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	v21	v22	v23	v24	v25	v26	v27	v28	v29	v30	v31	v32	v33	v34	v35	v36	v37	v38	v39	v40
133	6/14	50 cal Blank	60	T917	5	58	62	59	68	72	74	75	79	81	83	84	86	86	83	81	76	74	75	75	75	77	76	76	77	75	74	76	81	83	86	86	84	83	81	79	67	63	53	43	94
133	6/14	50 cal Blank	90	T918	3	55	52	54	66	64	70	71	74	74	77	77	79	79	77	71	70	70	69	68	66	70	70	71	69	70	68	66	71	77	79	79	77	77	74	70	56	50	39	24	87
133	6/14	50 cal Blank	90	T918	7	54	59	53	63	67	70	71	75	75	77	77	79	80	77	72	69	70	70	69	67	70	70	71	69	70	67	65	72	78	80	80	77	77	75	71	56	51	39	25	88
133	6/14	50 cal Blank	90	T919	3	65	59	61	62	62	67	69	73	74	78	78	82	80	76	68	66	66	68	66	62	73	60	66	73	73	81	76	78	91	100	91	85	82	78	74	56	51	47	45	101
133	6/14	50 cal Blank	90	T919	7	59	59	55	57	60	66	69	73	75	78	78	78	78	76	68	67	63	68	67	66	73	60	66	74	74	78	76	78	92	102	92	85	82	78	76	58	53	50	48	102
137	5/31	50 cal Blank	30	T1785	4		70	72	75	76	80	82	83	85	86	88	88	86	79	74	80	74	76	81	85	86	84	81	85	77	81	82	86	88	88	87	75	76	70	65	65	64	55	39	98
137	5/31	50 cal Blank	30	T1785	9	68		71	73	76	78	81	83	84	86	86	88	86	78	76	78	76	82	82	82	89	88	84	86	77	82	81	81	88	88	86	76	79	71	67	64	56	54	-	98
137	5/31	50 cal Blank	30	T1786	3	61		73	72	79	79	83	85	86	86	89	88	89	79	76	79	77	82	87	82	90	90	86	87	76	82	80	83	90	90	89	76	82	74	67	72	57	-	-	99
137	5/31	50 cal Blank	30	T1786	8	71		67	76	76	82	83	85	88	89	89	90	89	80	77	80	77	83	92	83	92	92	87	87	75	83	81	85	91	90	90	78	83	75	68	73	60	-	-	101
137	5/31	50 cal Blank	30	T1787	3	73	70	74	74	79	81	83	86	86	84	84	79	74	75	77	72	72	85	82	82	84	80	81	77	85	82	73	80	87	87	82	73	80	67	57	51	-	-	-	97
137	5/31	50 cal Blank	45	T1787	7	65	62	72	74	78	81	83	86	86	84	85	82	79	80	82	76	72	85	82	82	86	84	82	77	86	82	74	82	86	86	82	72	78	68	63	54	-	-	-	97
137	5/31	50 cal Blank	45	T1788	4	67	60	70	71	75	78	81	83	85	84	83	76	84	79	76	78	87	89	94	104	104	94	76	78	84	81	77	79	89	93	85	81	84	64	59	54	-	38	-	105
137	5/31	50 cal Blank	30	T1788	9	66		71	72	76	78	81	85	86	84	84	76	84	79	77	78	88	89	94	104	104	94	76	80	86	83	77	77	91	93	85	83	84	65	62	58	55	-	-	106
137	5/31	50 cal Blank	30	T1789	3		63	70	71	76	79	82	82	84	85	85	75	83	78	75	75	88	91	94	104	106	96	75	79	85	86	84	76	92	91	85	84	85	70	64	60	54	-	-	106
137	5/31	50 cal Blank	30	T1789	8	70	60	69	73	76	79	80	82	84	86	86	76	85	81	78	76	88	92	96	106	106	96	76	82	86	85	84	77	92	90	86	84	85	71	64	60	55	-	-	107
137	5/31	50 cal Blank	30	T1790	3	66	60	68	72	73	76	80	81	83	82	83	72	82	80	73	74	89	93	104	104	104	93	72	85	85	76	73	82	85	91	85	83	83	71	69	58	53	-	-	105
137	5/31	50 cal Blank	45	T1790	7	60		65	70	71	75	81	81	83	82	82	73	82	79	74	73	86	93	103	103	103	92	73	82	85	76	74	82	87	81	82	83	83	72	68	61	54	38	-	104
137	5/31	50 cal Blank	45	T1795	4	65		70	74	76	77	81	84	85	76	76	83	79	79	85	86	97	89	91	91	89	85	83	79	90	81	79	77	81	79	79	81	84	70	69	63	54	-	99	-
137	5/31	50 cal Blank	30	T1795	9	66		72	73	78	79	82	86	88	76	76	85	80	80	86	88	97	91	93	93	90	86	85	82	92	84	82	77	82	80	79	83	86	72	72	66	57	-	101	-
137	5/31	50 cal Blank	30	T1796	4	69	68	74	74	77	82	84	85	85	76	76	87	82	80	85	86	97	92	91	91	89	85	87	76	92	84	84	76	81	74	74	83	87	75	75	61	44	-	98	-
137	5/31	50 cal Blank	45	T1796	9	68	62	72	73	76	82	84	87	84	76	76	88	82	82	88	87	98	91	91	88	88	84	87	75	92	85	86	76	81	74	75	83	87	75	74	61	44	-	98	-
137	5/31	50 cal Blank	45	T1797	4	67	72	75	70	73	77	81	83	84	72	76	90	79	85	90	80	96	96	93	89	81	85	81	85	90	90	84	72	84	81	71	81	84	72	68	60	42	44	98	112
137	5/31	50 cal Blank	30	T1797	9	76	61	77	73	76	78	81	83	86	73	75	92	80	84	92	80	97	89	91	91	83	85	81	83	94	94	86	73	86	84	71	83	84	74	70	59	54	47	114	114
137	5/31	50 cal Blank	30	T1798	4	75	69	74	76	74	80	81	82	85	73	78	90	83	85	92	83	95	86	89	89	82	86	82	81	87	89	81	71	83	81	73	79	85	70	65	62	57	44	114	114
137	5/31	50 cal Blank	30	T1798	9	78	62	74	76	74	80	81	84	85	77	85	92	84	85	92	82	93	85	87	86	82	87	84	81	89	88	82	72	81	83	73	83	87	71	66	62	56	40	113	-
139	5/11	50 cal Blanks	90	T509	2	49	57	63	65	70	72	75	76	79	85	86	69	78	67	67	67	99	92	90	88	91	92	76	76	71	69	72	69	71	71	69	71	72	64	55	45	34	34	89	-
139	5/11	50 cal Blanks	90	T509	5	40	50	60	66	68	70	74	76	78	86	88	68	77	66	68	66	99	85	86	81	81	76	76	75	69	68	70	66	71	68	68	69	70	62	59	44	44	44	89	-
139	5/11	50 cal Blanks	90	T509	9	46	53	63	70	72	73	76	79	81	83	87	72	70	71	81	83	100	87	85	82	83	84	79	78	83	83	79	68	71	71	73	76	76	64	62	57	46	34	92	-
139	5/15	50 cal Blank	60	T1722	7			67	74	74	76	78	80	81	83	85	74	74	77	74	73	92	99	86	85	85	88	87	72	70	72	74	77	73	73	73	73	72	66	54	45	45	-	94	-
139	5/15	50 cal Blank	60	T1722	10	56	67	65	71	72	74	76	77	78	84	86	77	78	77	74	74	90	90	90	85	87	85	86	74	74	71	74	74	74	74	73	74	71	66	53	45	96	-	-	-
139	6/12	50 cal Blank	30	T1654	4	69	64	71	72	74	77	75	80	80	79	90	77	77	90	98	90	99	109	91	90	111	84	85	85	76	74	75	69	66	68	66	65	56	113	-	-	-	-	-	-

Site	Date	Type	Time	ID	N	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	D21	D22	D23	D24	D25	D26	D27	D28	D29	D30	D31	D32	D33	D34
139	6/12	50 cal Blank	30	T1654	9	114	45	57	66	68	71	74	76	78	80	83	86	88	93	92	91	90	99	84	84	91	112	109	91	84	80	80	78	76	78	75	71	74	75
139	6/12	50 cal Blank	30	T1656	4	96	48	76	83	85	84	85	83	86	86	87	87	85	82	80	79	76	79	80	80	76	76	76	77	74	72	71	70	64	69	67	66	—	68
139	6/12	50 cal Blank	30	T1656	9	97	52	78	85	86	86	86	85	86	87	86	87	85	85	81	80	77	81	81	80	77	77	77	78	74	71	73	61	0	66	0	0	—	63
139	6/12	50 cal Blank	60	T1658	3	91	43	69	77	78	77	79	79	81	81	80	82	82	81	76	75	72	70	69	71	71	73	74	72	67	64	65	50	61	63	65	66	56	63
139	6/12	50 cal Blank	60	T1658	7	90	39	64	74	78	77	79	78	78	79	79	82	82	79	75	73	71	70	69	69	70	73	73	70	65	67	63	59	58	59	0	0	61	59
139	6/12	50 cal Blank	90	T1660	3	86	—	56	66	69	70	71	75	76	76	76	75	74	73	70	69	66	65	64	68	67	71	72	70	66	62	64	50	59	64	63	60	64	59
139	6/12	50 cal Blank	90	T1660	7	82	—	52	61	66	67	70	72	72	72	72	72	72	69	68	67	65	64	61	65	63	67	69	67	62	63	64	50	62	60	0	0	—	—
139	6/12	50 cal Blank	60	T1661	3	113	38	50	60	62	64	67	69	72	75	78	83	86	87	87	89	84	94	82	83	88	111	108	91	86	83	81	76	76	73	69	72	72	68
139	6/12	50 cal Blank	60	T1661	8	115	39	54	62	64	64	70	72	76	78	81	86	89	93	89	91	87	97	85	85	91	113	111	93	88	85	83	79	78	75	72	74	74	72
139	6/12	50 cal Blank	90	T1663	3	111	35	48	57	58	63	65	68	72	72	76	76	76	84	81	82	82	91	79	81	86	109	107	91	86	82	79	75	73	72	56	71	72	56
139	6/12	50 cal Blank	90	T1663	8	109	35	46	54	57	61	64	66	71	69	71	73	73	80	79	80	78	87	77	79	85	107	104	89	83	80	76	74	71	69	68	72	71	64
139	6/12	50 cal Blank	30	T1666	4	109	41	54	61	68	74	74	71	74	75	79	79	84	85	85	89	91	85	90	95	106	104	91	89	86	85	85	87	85	88	87	86	86	86
139	6/12	50 cal Blank	30	T1668	4	96	44	72	80	82	84	86	85	86	88	86	85	84	83	82	81	78	75	80	74	77	78	73	72	70	73	73	58	69	64	71	66	71	—
139	6/12	50 cal Blank	60	T1670	4	90	40	63	71	74	76	78	79	80	81	81	80	81	82	77	76	74	72	69	67	71	70	70	69	67	68	63	62	62	62	58	—	—	64
139	6/12	50 cal Blank	60	T1670	9	89	40	61	70	73	75	76	77	77	79	79	79	79	79	75	74	71	70	68	67	69	69	67	69	64	65	66	62	62	62	59	—	64	—
139	6/12	50 cal Blank	90	T1672	4	84	—	48	59	65	67	69	71	72	75	75	74	74	73	73	69	67	65	60	63	67	66	66	67	62	63	66	63	57	63	53	59	58	65
139	6/12	50 cal Blank	90	T1672	10	86	—	51	61	66	68	71	72	74	76	76	77	77	74	74	70	68	66	61	63	67	67	65	68	66	65	64	65	62	65	62	—	61	55
139	6/12	50 cal Blank	60	T1673	4	107	35	44	52	60	66	71	73	76	72	73	82	82	76	80	83	84	83	87	89	102	104	94	89	85	82	80	76	76	74	67	67	63	68
139	6/12	50 cal Blank	60	T1673	9	104	35	44	52	52	57	66	70	72	68	69	77	77	82	80	80	78	76	80	82	90	100	100	93	87	82	80	76	75	74	70	70	68	64
139	6/12	50 cal Blank	90	T1675	4	101	—	45	52	50	57	62	66	68	65	68	76	75	78	80	84	83	75	80	86	97	97	90	85	81	79	77	72	69	68	66	—	63	—
139	6/12	50 cal Blank	90	T1675	9	102	—	44	53	52	57	63	68	70	65	68	72	76	77	73	76	75	76	81	87	98	98	92	87	83	81	80	75	73	70	68	68	63	65
148	4/25	50 cal Blank	45	T972	2	101	52	62	68	72	76	78	79	82	82	86	87	86	83	83	84	79	77	76	82	87	92	93	93	91	89	87	85	83	79	79	74	71	62
148	4/25	50 cal Blank	45	T972	8	100	50	61	66	70	74	77	77	79	81	84	85	84	81	81	82	78	77	77	82	87	90	92	93	92	90	86	83	81	79	74	73	72	57
148	5/1	50 cal Blank	30	T1369	2	103	56	65	71	76	79	81	83	85	85	85	84	85	84	85	85	83	83	82	83	90	94	96	95	94	91	89	84	86	81	82	79	73	68
148	5/1	50 cal Blank	30	T1369	6	101	50	60	67	72	75	78	81	82	83	83	83	83	83	83	82	82	81	81	82	89	92	95	93	92	90	87	88	83	81	79	73	74	61
148	5/1	50 cal Blank	30	T1369	12	104	52	62	69	74	77	80	81	83	85	85	83	85	86	86	85	84	84	85	85	91	95	98	97	95	93	90	88	86	82	82	79	73	65
148	6/12	50 cal Blank	15	T1682	4	116	42	57	67	70	71	74	78	80	81	80	85	88	92	94	99	93	98	92	91	95	111	114	98	90	88	86	83	82	78	74	80	76	68
148	6/12	50 cal Blank	15	T1682	8	113	—	54	64	69	70	72	75	78	81	85	85	86	88	91	96	90	96	90	88	92	108	111	95	86	85	83	79	77	74	65	79	73	72
148	6/12	50 cal Blank	30	T1683	4	116	42	52	62	66	68	70	73	77	80	84	80	83	86	88	93	91	100	91	91	94	109	114	96	91	87	86	81	81	78	76	80	72	74

Range	Date	Type	Val	ID	N																																	
148	6/12	50 cal Blank	30	T1683	9	68	72	72	72	77	77	79	81	87	107	102	86	82	83	93	84	86	81	79	77	74	76	72	69	65	62	60	56	56	45	109
148	6/12	50 cal Blank	30	T1683	11	74	71	77	71	82	85	86	89	94	113	107	93	89	90	98	90	93	85	86	82	84	80	84	79	73	70	67	64	61	48	114
148	6/12	50 cal Blank	45	T1684	3	68	70	77	70	80	81	83	86	92	108	107	91	88	87	92	87	91	83	83	78	77	83	80	76	71	67	65	62	58	52	111
148	6/12	50 cal Blank	45	T1684	8	71	67	76	80	80	81	84	87	92	109	107	93	88	86	92	87	90	80	80	76	76	78	84	72	67	68	64	61	58	49	112
148	6/12	50 cal Blank	15	T1685	4	74	66	67	77	80	80	84	87	89	78	76	82	83	78	81	84	89	90	92	94	92	90	90	89	72	66	61	54	54	80	102
148	6/12	50 cal Blank	15	T1685	8		65	71	57	77	77	78	80	77	76	74	83	78	74	79	82	86	89	91	92	90	91	87	86	71	66	87	88	89	80	100
148	6/12	50 cal Blank	30	T1686	4	66	70	73	70	80	83	84	81	80	73	75	81	83	80	86	85	87	84	82	88	89	88	84	84	66	73	82	84	81	73	97
148	6/12	50 cal Blank	30	T1686	9		60	70	60	74	67	73	65	72	70	67	78	73	67	75	78	87	79	85	85	86	79	75	71	70	74	73	81	65	73	92
148	6/12	50 cal Blank	30	T1686	11	68	65	67	65	74	72	73	73	74	73	73	85	82	78	80	85	87	84	87	85	85	72	75	72	67	72	74	81	71	45	97
148	6/12	50 cal Blank	45	T1687	3	66		67		72	57	72	65	73	70	70	86	84	76	79	81	90	82	83	82	83	78	75	68	67	72	77	78	73	64	93
148	6/12	50 cal Blank	45	T1687	9	66	63	72	63	69	57	71	67	75	74	67	94	89	76	78	80	87	79	83	80	81	78	76	72	69	74	82	74	64	42	95
159	5/30	50 cal Blank	30	T893	3	70	69	80	85	88	90	93	86	85	73	76	96	90	85	93	94	86	83	81	86	87	78	76	85	72	80	82	75	67	58	104
159	5/30	50 cal Blank	30	T894	2	67	72	78	86	86	87	90	84	81	78	76	87	88	82	91	92	83	83	81	83	86	79	74	81	72	74	80	74	64	55	102
159	5/30	50 cal Blank	30	T894	5	70	72	77	78	86	87	90	84	82	76	76	88	84	82	89	89	82	83	83	83	89	77	73	76	68	72	74	76	71	56	102
159	5/30	50 cal Blank	30	T895	2	58	56	68	63	77	76	80	89	84	75	75	86	82	84	85	85	78	82	83	81	84	78	79	77	60	70	76	71	64	56	98
159	5/30	50 cal Blank	45	T895	6	86	85	82	81	83	85	85	85	86	78	74	86	81	82	89	89	80	80	81	84	82	78	77	75	82	77	66	61	50	33	99
159	5/30	50 cal Blank	45	T896	4	75	72	73	78	79	81	86	90	92	89	77	96	92	86	90	94	78	78	79	84	84	81	76	76	82	78	67	61	50	33	99
159	5/30	50 cal Blank	30	T897	2	72	72	70	75	81	85	90	92	97	119	108	94	98	92	106	90	94	91	90	89	89	85	81	79	71	80	73	71	62	57	119
159	5/30	50 cal Blank	30	T897	5	72	72	64	74	80	85	87	89	95	116	106	92	95	89	103	89	91	87	86	89	88	87	79	76	74	76	74	68	64	53	117
159	5/30	50 cal Blank	30	T898	2	66	68	75	72	80	83	87	89	95	115	106	93	95	89	103	88	89	89	85	88	88	87	77	72	76	74	70	65	58	53	116
159	5/30	50 cal Blank	45	T898	6	68	68	79	76	82	86	86	86	93	111	104	91	85	85	97	90	90	85	82	85	85	86	74	73	77	76	69	63	59	48	112
159	5/30	50 cal Blank	45	T1852	4	78	74	71	77	76	77	78	85	93	112	104	92	86	86	98	82	82	83	84	84	83	82	74	72	70	71	71	63	59	47	113
163	6/7	50 cal Blank	15	T1852	7	81	76	70	75	81	85	88	90	94	114	94	87	92	84	96	90	90	89	88	85	84	84	85	79	75	81	84	81	75	68	115
163	6/7	50 cal Blank	15	T1854	4	80	74	73	73	80	84	87	91	95	116	95	88	91	87	99	89	92	91	86	86	85	82	84	81	73	79	80	80	77	69	117
163	6/7	50 cal Blank	15	T1854	7	83	79	79	77	82	83	88	89	92	86	87	90	93	89	97	88	89	92	92	90	88	89	82	79	69	75	86	83	74	51	104
163	6/7	50 cal Blank	15	T1855	4	69	71	76	78	82	85	89	92	93	86	87	91	92	91	98	94	91	93	94	93	89	91	89	82	79	76	89	87	78	53	106
163	6/7	50 cal Blank	30	T1855	8	75	73	80	81	84	89	91	94	94	94	92	84	88	87	98	96	93	92	84	84	85	81	84	80	74	75	71	71	68	61	102
163	6/7	50 cal Blank	30	T1856	4	74	72	74	80	84	86	87	90	95	114	94	87	92	87	96	86	88	84	85	86	87	82	82	81	77	73	77	73	69	61	104
163	6/7	50 cal Blank	30	T1856	8	75	73	72	78	82	85	89	92	106	116	95	88	89	93	98	90	92	88	89	85	88	89	82	82	75	74	75	75	74	63	116
163	6/7	50 cal Blank	30	T1857	3	66	70	73	80	82	86	90	91	106	117	96	90	91	92	100	92	94	89	89	92	93	86	82	82	73	76	76	76	74	64	117
163	6/7	50 cal Blank	60	T1857	7	64	62	70	73	77	80	83	88	100	107	90	82	90	78	98	81	88	83	80	83	84	82	78	77	74	77	70	72	76	61	109
163	6/7	50 cal Blank	60	T1857	7	64	68	69	75	78	82	87	87	99	107	89	82	89	76	97	77	87	80	80	81	80	81	76	70	69	77	75	70	60	49	109

The following table is rotated 90° on the printed page. It is reproduced below with each record as a row. The numeric columns carry no printed headers; the right-most columns are the record identifiers.

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	D21	D22	D23	D24	D25	D26	D27	D28	D29	D30	D31	D32	D33	D34	D35	Seq	Test	Dur	Type	Date	Site
92	40	45	53	63	67	70	73	75	76	77	79	80	77	77	78	76	75	72	71	71	76	81	84	84	82	81	78	77	75	71	71	65			3	T1858	60	50 cal Blank	6/7	163
92	43	44	53	61	66	69	71	73	76	77	80	79	77	76	78	75	74	70	70	72	75	81	83	84	82	80	78	77	75	68	70	66		58	7	T1858	60	50 cal Blank	6/7	163
111	40	52	58	64	68	71	76	80	79	82	81	80	85	85	88	88	96	86	87	92	108	108	93	87	86	82	81	78	77	76	79	75	69	74	3	T1863	30	50 cal Blank	6/7	163
112	39	51	62	67	70	73	77	80	80	83	82	81	86	85	88	88	97	86	87	93	108	109	93	88	87	84	81	80	81	79	80	74	61	75	7	T1863	30	50 cal Blank	6/7	163
115	39	59	68	71	73	75	78	81	82	84	84	86	93	93	92	93	103	86	89	93	112	111	93	90	86	84	80	81	79	76	80	69	66	76	2	T1864	15	50 cal Blank	6/7	163
115	39	58	68	70	75	75	79	82	82	84	84	87	93	93	93	93	103	86	88	92	112	111	92	90	85	86	79	80	79	77	73	70	70	66	82	6	T1864	15	50 cal Blank	6/7	163
101	50	56	68	72	77	77	79	80	81	81	83	82	83	83	83	84	83	81	81	85	89	93	93	92	83	83	80	79	76	72	72	70			3	T1866	30	50 cal Blank	6/7	163
101	49	59	69	73	78	78	79	80	82	83	83	83	84	84	82	83	81	80	83	85	89	93	93	93	85	83	81	79	77	72	72	71	64	66	7	T1866	30	50 cal Blank	6/7	163
104		76	84	86	86	87	88	89	90	91	91	91	90	90	87	85	86	80	88	94	93	91	94	90	86	88	87	81	80	80	87	75	63	70	2	T1867	15	50 cal Blank	6/7	163
104		77	84	86	86	87	88	90	90	89	90	92	90	89	87	85	86	86	89	94	95	92	94	90	86	87	84	80	84	84	87	76	72	78	6	T1867	15	50 cal Blank	6/7	163
93	39	44	53	63	67	70	73	74	75	77	78	78	77	78	77	77	71	71	72	73	79	83	84	85	83	80	78	77	74	72	73	64		66	3	T1869	60	50 cal Blank	6/7	163
93	34	43	52	63	67	70	72	73	75	77	77	78	78	78	77	76	71	71	72	72	79	83	84	85	83	80	77	76	74	72	72	66	64	65	7	T1869	60	50 cal Blank	6/7	163
111		47	53	58	62	66	71	78	78	81	79	73	79	78	77	76	71	71	85	90	108	107	92	86	83	81	79	77	75	74	68	70	55	70	3	T1870	60	50 cal Blank	6/7	163
110	40	47	54	59	63	67	72	78	80	80	78	72	79	78	77	80	86	81	84	84	107	107	91	86	83	83	78	77	74	73	71	72			7	T1870	60	50 cal Blank	6/7	163
112		61	70	74	73	76	77	83	83	86	86	89	90	92	99	86	95	86	85	86	95	111	99	90	86	86	83	81	77	74	73	71	72	66	3	T1875	30	50 cal Blank	6/7	163
113	40	62	69	73	74	75	78	82	84	87	88	90	93	90	100	87	96	86	85	86	97	112	99	90	88	87	85	82	78	75	72	74	69	75	7	T1875	30	50 cal Blank	6/7	163
115	40	66	74	76	78	80	83	82	86	87	92	94	95	98	103	91	95	88	88	88	97	114	101	89	87	86	84	81	77	82	83	77	71	79	4	T1876	15	50 cal Blank	6/7	163
114	40	65	72	75	76	80	82	83	85	87	90	92	93	93	101	90	96	86	88	86	96	113	100	89	88	85	84	83	79	77	82	73	72	72	8	T1876	15	50 cal Blank	6/7	163
100	39	67	75	77	78	81	81	90	87	93	90	88	90	89	84	83	82	81	87	90	90	90	90	89	83	82	81	77	73	74	71	73		74	3	T1878	30	50 cal Blank	6/7	163
101	44	66	74	77	80	81	82	88	87	91	86	87	89	87	84	84	82	80	81	87	92	93	91	90	86	84	81	80	77	72	73	67	71	63	6	T1878	30	50 cal Blank	6/7	163
106	51	76	84	86	87	88	89	88	91	93	94	96	95	96	95	87	91	89	86	93	95	95	91	90	88	86	85	84	84	82	83	76	71	80	4	T1879	15	50 cal Blank	6/7	163
105	50	77	82	84	85	86	87	87	89	91	93	94	94	95	93	77	90	88	85	92	97	94	91	90	86	84	83	83	82	77	77	73	67	72	7	T1879	15	50 cal Blank	6/7	163
92	38	39	50	61	66	69	73	74	75	77	78	78	78	76	74	73	71	68	65	73	79	82	84	83	82	81	78	77	75	70	73	58		55	3	T1881	60	50 cal Blank	6/7	163
94	35	45	54	63	68	70	73	76	78	77	79	79	79	78	77	76	74	71	67	74	81	84	86	85	84	82	79	78	74	72	74	63	70		7	T1881	60	50 cal Blank	6/7	163
107	50	51	59	63	67	68	69	76	85	86	86	86	83	89	93	82	80	75	73	82	92	106	95	87	83	80	80	77	73	69	69	67	67	66	3	T1882	60	50 cal Blank	6/7	163
109	35	54	62	64	68	71	71	75	82	84	85	85	85	92	98	87	82	79	73	83	94	107	97	89	85	81	80	80	77	74	74	65	66	53	7	T1882	60	50 cal Blank	6/7	163
95	50	67	75	79	81	82	82	84	85	86	85	84	81	78	78	77	78	78	84	83	80	75	74	72	70	66	64	60	59	57	51	57	66	53	3	T1049	30	50 cal Blank	6/7	172
95	52	67	75	78	81	82	82	82	82	84	85	85	80	80	80	78	80	81	86	86	82	78	76	74	71	67	63	60	59	56	56	56	57	47	6	T1049	30	50 cal Blank	5/12	172
91	28	52	55	53	54	53	51	51	50	50	50	49	52	51	54	55	58	62	64	67	67	67	69	72	77	77	78	66	67	75	89	81	66	66	8	T1049	30	50 cal Blank	5/12	172

Site	Date	Type	Col	ID	N	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	d12	d13	d14	d15	d16	d17	d18	d19	d20	d21	d22	d23	d24	d25	d26	d27	d28	d29	d30	d31	d32	d33	d34	d35
172	5/16	50 cal Blank	60	T566	5	46	53	47	44	48	51	55	60	65	68	70	70	70	70	71	72	69	68	71	74	74	75	77	77	75	74	74	72	70	67	63	58	47	42	86
172	5/16	50 cal Blank	60	T566	8	47	38	45	44	51	53	57	61	66	69	70	72	72	71	73	74	71	70	73	76	77	77	78	78	77	76	76	73	71	68	64	59	48	31	88
172	5/16	50 cal Blank	60	T566	11	44	44	42	43	49	54	57	62	67	70	72	74	72	73	74	74	77	74	72	74	77	79	79	79	78	77	77	74	72	69	65	60	49	32	89
172	6/14	50 cal Blank	90	T1480	4	37	47			44	45	49	54	60	63	65	67	68	65	66	63	57	62	66	70	72	74	74	76	76	74	70	69	68	66	63	60	51	29	84
172	6/14	50 cal Blank	90	T1480	9	42	34	46		48	49	51	57	63	66	68	70	71	65	66	63	60	65	70	71	69	72	74	76	77	77	74	71	69	67	63	60	54	29	87
172	6/14	50 cal Blank	60	T1481	3	49	52	51	47	53	54	59	63	67	71	73	74	75	71	72	77	68	71	73	75	77	78	80	81	82	82	78	77	78	77	75	74	63	50	91
172	6/14	50 cal Blank	60	T1481	10	51	53	49	53	56	59	61	65	69	72	74	75	76	72	73	78	69	72	74	76	77	80	82	83	84	84	79	80	82	82	79	78	64	54	92
172	6/14	50 cal Blank	90	T1482	4	61	64	64	66	66	67	69	72	75	78	80	76	78	89	76	79	82	84	83	80	80	82	85	87	85	83	80	78	78	76	73	70	55	49	105
172	6/14	50 cal Blank	90	T1482	8	48	47	58	54	58	62	66	70	74	77	83	86	86	91	85	79	82	84	85	82	81	84	88	89	87	84	78	77	80	79	75	73	57	52	108
172	6/14	50 cal Blank	60	T1483	3	68	67	66	67	66	68	69	72	75	78	86	86	88	94	94	81	85	89	90	87	87	88	88	89	90	89	80	80	82	83	78	77	58	55	108
172	6/14	50 cal Blank	60	T1483	10	69	54	62	63	62	68	68	72	76	80	86	86	88	94	94	82	82	84	81	81	84	88	90	89	89	88	80	83	86	87	83	81	61	57	108
172	6/14	50 cal Blank	30	T1484	5	71	71	72	73	74	73	74	76	78	81	91	88	85	98	90	85	85	89	90	84	80	80	84	85	82	81	75	84	88	89	83	82	53	53	112
172	6/14	50 cal Blank	30	T1484	9	58	58	64	65	66	67	68	71	75	79	85	88	79	90	79	79	81	82	81	80	78	82	84	87	81	80	75	84	88	87	76	73	59	46	106
172	6/14	50 cal Blank	30	T1484	12	64	60	67	67	68	70	72	75	80	82	88	88	83	96	90	83	83	86	88	84	83	83	88	88	85	83	75	88	89	85	76	73	65	51	110
172	6/14	50 cal Blank	30	T1485	5	60	59	58	62	62	66	68	71	75	80	76	76	96	76	76	80	80	81	80	80	78	83	83	80	83	83	75	80	84	84	83	82	74	66	98
172	6/14	50 cal Blank	30	T1485	9			59	56	58	60	63	66	69	75	69	77	70	69	76	73	73	78	77	73	70	81	77	78	77	82	80	75	76	80	78	77	69	62	91
172	6/14	50 cal Blank	30	T1485	12	56	52	57	61	64	65	69	71	73	77	74	70	73	75	74	76	75	79	79	79	81	84	87	88	83	87	75	78	83	84	82	78	75	66	97
172	6/14	50 cal Blank	30	T1486	3	64	66	64	67	67	70	73	75	79	80	73	77	80	73	76	83	83	88	89	88	84	88	89	89	88	86	80	83	83	84	84	80	80	70	101
172	6/14	50 cal Blank	30	T1486	7	57	59	63	63	65	66	69	73	73	80	72	70	79	72	75	85	83	88	90	88	88	88	91	93	91	90	88	88	89	87	86	85	78	68	100
172	6/14	50 cal Blank	30	T1487	4	65	62	69	68	66	69	74	77	80	94	100	100	78	94	87	86	76	73	76	84	84	83	91	90	91	89	84	84	84	83	76	73	69	49	105
172	6/14	50 cal Blank	30	T1487	8	63	61	68	68	67	68	74	77	80	94	100	100	78	86	86	85	74	72	76	83	83	83	87	88	88	84	84	84	82	78	71	69	71	52	105
172	6/14	50 cal Blank	60	T1488	3	55	67	66	72	73	75	78	80	82	84	87	88	70	84	72	77	73	69	73	75	78	77	80	81	77	80	80	75	81	82	68	57	52	43	95
172	6/14	50 cal Blank	60	T1488	7	57	67	72	73	75	78	81	84	85	89	91	84	73	88	76	81	78	73	75	78	81	83	84	87	82	83	84	82	81	80	73	73	56	48	98
172	6/14	50 cal Blank	90	T1489	2	60	62	63	68	70	71	74	77	79	80	83	76	72	76	62	75	76	75	76	76	75	76	73	76	73	75	88	75	83	84	68	50	42	38	90
172	6/14	50 cal Blank	90	T1489	6	57	65	62	63	64	69	71	74	77	79	82	75	71	75	62	74	77	74	75	76	76	77	72	78	76	78	61	55	82	85	66	60	41	38	90
172	6/14	50 cal Blank	90	T1489	9	53	62	62	62	62	63	68	73	76	76	79	75	65	68	52	64	65	64	66	68	69	71	76	81	79	76	83	73	79	79	69	66	40	37	89
172	6/14	50 cal Blank	90	T1489	16	51	61	60	66	60	64	65	68	73	76	76	75	50	62	58	65	67	65	67	68	69	74	79	81	83	80	84	76	81	82	71	69	43	40	90
172	6/14	50 cal Blank	90	T1489	19	57	62	68	68	64	68	72	74	76	79	86	76	71	79	68	67	71	67	72	73	74	76	79	83	80	83	88	81	83	84	64	62	47	45	93
172	6/14	50 cal Blank	60	T1490	3	47	48	48	48	51	58	61	63	63	68	61	55	60	66	44	50	58	62	66	68	66	68	79	82	84	80	78	71	75	75	58	49	61	51	89
172	6/14	50 cal Blank	60	T1490	7		50	49	52	54	60	64	67	67	71	67	60	66	74	58	62	67	65	69	71	74	76	77	80	84	82	71	74	78	80	58	52	63	52	93
172	6/14	50 cal Blank	90	T1491	2	40	44	45	47	48	51	55	58	58	57	57	50	58	64	44	50	55	57	61	65	68	68	72	72	71	70	68	65	67	57	50	44	47	35	81

ID	Date	Type	Chg	Test	n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
172	6/14	50 cal Blank	90	T1491	6		45	44	0	46	45	50	55	58	58	57	51	43	47	53	59	63	66	69	71	72	73	71	70	69	67	66	64	60	56	46	28	81
172	6/14	50 cal Blank	90	T1491	9	47	43	43	46	44	46	47	54	57	58	57	51	42	46	51	58	63	66	68	69	71	72	71	71	70	69	67	64	61	57	47	25	81
172	6/14	50 cal Blank	90	T1491	16	46	45	37	0	44	47	50	55	57	58	57	52	45	46	50	58	65	65	68	69	71	72	71	71	69	67	65	64	61	56	46	27	80
172	6/14	50 cal Blank	90	T1491	19	43	43	40	0	49	48	53	57	61	61	59	54	46	49	55	62	68	70	72	71	75	75	73	72	70	70	66	66	63	59	49	26	84
177	6/15	50 cal Blank	30	T932	2	59	65	74	73	76	79	80	83	83	87	90	90	90	90	83	79	79	78	79	81	84	83	81	79	78	80	80	80	79	77	70	61	99
177	6/15	50 cal Blank	30	T932	14	61	67	75	75	78	80	82	85	86	89	92	93	93	92	85	81	82	81	81	84	86	86	84	81	80	80	80	81	79	76	69	60	101
177	6/15	50 cal Blank	45	T933	2	63	62	72	71	74	77	79	81	82	85	87	88	86	84	79	75	76	79	81	79	83	86	78	79	81	78	76	73	72	69	62	52	96
177	6/15	50 cal Blank	45	T933	8	59	63	71	72	74	77	79	81	83	85	87	89	87	84	79	76	78	79	81	80	83	83	78	79	81	78	75	73	71	67	60	50	96
177	6/15	50 cal Blank	30	T935	3	68	50	75	74	76	77	75	77	79	83	90	107	100	90	86	85	92	86	92	91	82	84	85	86	91	75	73	69	66	64	59	52	108
177	6/15	50 cal Blank	30	T935	15	73	67	76	74	78	79	78	79	81	85	92	109	103	93	88	87	94	89	94	94	84	82	86	89	92	78	76	73	70	67	62	55	110
177	6/15	50 cal Blank	45	T936	2	70	66	73	72	75	75	75	76	80	83	92	107	101	88	83	83	89	87	92	93	82	84	86	87	93	73	71	67	65	60	54	50	109
177	6/15	50 cal Blank	45	T936	8	69	67	72	72	73	75	75	75	80	85	92	107	101	88	82	82	88	87	93	90	83	86	83	87	90	72	71	67	64	60	54	50	108
177	6/15	50 cal Blank	60	T938	3	67	64	69	67	69	70	70	72	74	79	87	102	96	85	81	80	88	83	87	87	85	84	82	83	87	70	67	65	63	60	56	54	104
177	6/15	50 cal Blank	60	T938	8	69	64	66	64	67	69	69	69	73	81	86	103	97	86	81	81	88	82	87	85	80	82	76	81	85	71	69	67	63	60	57	54	104
177	6/15	50 cal Blank	60	T939	3	61	58	63	70	73	69	69	73	81	83	85	85	84	82	76	73	72	74	74	87	80	85	78	73	74	69	68	66	63	59	52	46	93
177	6/15	50 cal Blank	60	T939	7	43	47	71	68	72	75	78	76	81	83	85	85	84	82	76	72	74	75	75	87	76	80	78	75	75	68	68	66	63	59	51	42	93
177	6/15	50 cal Blank	60	T940	2	66	62	67	72	73	77	79	78	81	85	87	88	87	80	80	77	75	73	76	74	74	80	74	73	76	75	76	76	75	71	66	59	95
177	6/15	50 cal Blank	60	T940	6	57	54	72	72	77	77	79	78	83	86	88	88	87	81	81	78	75	74	76	74	77	76	73	74	76	75	75	74	71	68	63	58	95
177	6/15	50 cal Blank	60	T941	2	69	62	72	69	77	76	70	72	75	77	82	87	105	96	85	81	80	92	79	86	77	74	71	79	67	64	63	60	57	55	53	51	106
177	6/15	50 cal Blank	60	T941	6	65	60	69	68	68	80	82	76	80	79	82	87	104	96	85	81	81	92	79	78	81	78	80	79	67	64	62	60	57	55	53	51	105
177	6/15	50 cal Blank	45	T943	2	73	69	74	63	69	81	83	78	81	84	85	93	109	100	91	87	86	96	83	89	81	77	81	83	71	66	66	62	58	55	52	49	110
177	6/15	50 cal Blank	45	T943	7	75	71	73	74	74	81	83	78	81	84	87	94	110	102	92	88	87	97	85	91	83	79	80	84	74	72	69	64	61	58	54	51	111
177	6/15	50 cal Blank	30	T944	2	73	72	72	74	73	81	85	81	83	84	88	93	108	101	91	87	87	95	85	90	85	87	85	84	74	72	68	65	64	59	56	51	109
177	6/15	50 cal Blank	30	T944	7	78	68	75	71	76	84	85	86	87	90	90	96	110	103	93	90	89	97	87	92	84	85	84	87	77	74	71	68	65	61	57	52	111
177	6/15	50 cal Blank	45	T946	2	67	63	71	70	77	80	80	84	81	91	91	92	92	87	84	81	79	80	81	85	87	82	80	80	85	85	82	80	79	77	69	59	99
177	6/15	50 cal Blank	45	T946	6	63	57	70	75	76	81	82	86	81	90	93	94	93	88	86	84	82	82	82	82	80	82	80	82	84	82	81	82	80	78	71	61	101
177	6/15	50 cal Blank	30	T947	2	71	65	74	74	78	81	83	86	87	92	92	92	91	87	82	81	80	81	85	83	81	85	84	81	85	82	80	81	78	76	69	61	100
177	6/15	50 cal Blank	30	T947	7	75	68	79	75	81	84	85	88	89	89	94	95	93	89	85	85	83	84	86	86	82	79	80	84	86	84	83	83	83	80	74	65	103
183	6/1	50 cal Blank	30	T1430	3	65	66	71	72	75	77	80	79	80	84	88	104	103	89	86	85	93	87	90	87	85	79	79	87	90	72	68	66	59	56	49	41	107

Region	Date	Type	No.	Sample	Measurement values (as recorded)
183	6/1	50 cal Blank	30	T1430	107 38 48 56 58 65 67 73 77 77 81 79 78 81 83 90 86 93 85 85 89 104 104 89 85 81 80 81 78 75 71 73 64 61 63 7
183	6/1	50 cal Blank	30	T1432	90 39 65 72 75 76 77 77 78 80 80 78 82 81 79 77 77 73 71 74 71 74 75 71 72 73 66 66 70 65 55 53 40 — — 3
183	6/1	50 cal Blank	30	T1432	91 39 65 73 75 76 77 78 78 82 81 78 82 81 80 77 77 73 74 75 72 75 71 72 73 74 70 71 68 65 58 53 54 51 — 7
183	6/1	50 cal Blank	60	T1434	87 32 57 66 69 71 73 74 77 77 76 74 77 76 74 74 75 69 68 71 65 71 63 64 66 68 62 65 64 57 — 45 43 38 — 3
183	6/1	50 cal Blank	60	T1434	88 51 66 68 71 73 74 76 79 79 81 74 80 72 80 70 81 83 85 85 88 97 100 85 84 81 80 77 73 76 71 73 48 45 41 7
183	6/1	50 cal Blank	60	T1436	103 52 60 66 71 73 74 77 79 78 79 68 78 74 83 72 77 79 85 88 97 101 97 89 86 83 77 77 76 80 68 64 60 64 68 3
183	6/1	50 cal Blank	60	T1436	103 53 55 68 68 74 74 76 81 80 79 72 76 73 83 83 85 88 89 97 97 97 84 85 80 80 82 76 74 78 73 70 55 60 62 6
183	6/1	50 cal Blank	90	T1438	101 53 50 55 70 70 70 72 73 74 78 70 75 70 80 84 82 80 85 98 96 84 82 80 74 76 78 74 67 74 61 60 50 48 58 3
183	6/1	50 cal Blank	90	T1438	100 46 53 47 67 65 65 67 74 73 80 74 76 73 83 80 85 82 89 97 97 85 82 80 73 73 78 73 61 70 58 54 47 53 67 8
183	6/1	50 cal Blank	90	T1439	85 51 54 55 62 68 68 69 73 75 76 70 75 75 75 73 72 72 66 64 57 66 57 59 61 67 60 58 58 54 43 37 — — — 4
183	6/1	50 cal Blank	90	T1439	85 28 53 60 67 65 65 66 73 73 76 74 77 77 77 72 73 72 67 64 58 67 58 61 61 64 52 58 50 52 46 38 35 37 — 8
183	6/1	50 cal Blank	90	T1440	81 28 50 58 59 63 59 65 69 69 71 70 74 75 75 68 68 65 61 57 55 60 54 59 61 57 50 54 45 45 37 36 30 36 38 3
183	6/1	50 cal Blank	90	T1441	90 39 49 55 59 59 59 60 67 63 66 68 71 72 72 66 68 66 69 62 72 79 75 66 65 84 81 78 73 71 69 62 55 53 38 3
183	6/1	50 cal Blank	60	T1443	94 23 32 42 47 50 47 53 62 63 67 66 69 69 69 61 63 57 53 47 50 82 75 69 66 88 84 81 78 77 74 69 61 62 66 2
183	6/1	50 cal Blank	60	T1443	95 33 42 47 53 57 53 57 65 65 69 68 71 71 71 64 66 62 57 53 52 83 76 71 69 89 85 79 78 79 77 76 69 61 62 7
183	6/1	50 cal Blank	60	T1445	84 40 49 54 58 60 58 60 66 64 68 70 69 69 72 66 64 61 61 58 49 62 58 56 54 63 56 57 48 49 46 38 38 39 43 3
183	6/1	50 cal Blank	60	T1445	86 47 55 61 64 61 65 67 68 65 73 72 75 77 73 71 67 61 65 63 53 63 63 57 55 65 58 54 50 53 47 36 40 42 — 7
183	6/1	50 cal Blank	30	T1447	95 48 56 69 73 68 73 73 72 73 78 74 79 77 77 73 68 69 70 65 73 86 76 71 71 86 80 76 62 65 55 54 55 — — 3
183	6/1	50 cal Blank	30	T1447	93 63 69 73 78 76 79 79 76 78 81 77 78 79 78 74 65 68 76 73 73 87 76 69 71 87 82 80 69 68 60 57 51 — — 7
183	6/1	50 cal Blank	30	T1449	103 61 68 72 75 77 78 79 75 75 83 79 84 85 89 78 69 72 79 79 79 96 94 82 79 96 86 88 70 73 64 60 57 64 77 3
183	6/1	50 cal Blank	30	T1449	103 58 65 69 71 75 73 73 71 72 78 77 83 85 84 77 67 65 74 71 78 97 95 85 81 98 88 88 74 70 61 58 58 65 70 7
183	6/1	50 cal Blank	90	T1452	83 53 60 57 62 69 67 69 72 73 78 74 83 87 85 76 65 60 74 57 61 62 61 62 61 63 59 56 48 52 41 33 38 39 — 4
183	6/1	50 cal Blank	90	T1452	84 47 50 50 57 64 65 68 73 72 74 74 75 88 84 75 62 60 72 57 63 65 62 58 57 65 52 56 50 50 43 36 42 — — 8
183	6/1	50 cal Blank	90	T1453	92 31 38 46 50 53 53 59 65 62 62 73 69 80 86 70 58 53 65 53 65 76 82 82 86 71 60 56 46 50 43 — 60 57 53 9
183	6/1	50 cal Blank	90	T1453	92 36 39 45 49 50 54 60 65 65 68 70 70 82 85 71 54 50 60 49 54 77 83 81 83 70 64 49 45 45 50 — 57 56 51 12
194	4/26	50 cal Blank	30	T1004	102 54 63 70 76 73 79 78 79 83 84 81 84 96 94 82 67 58 73 65 79 94 90 83 83 94 86 81 70 76 63 70 73 80 77 3
194	4/26	50 cal Blank	30	T1004	104 55 64 72 77 75 80 79 80 85 86 83 82 97 95 84 69 62 70 70 81 95 94 85 85 94 88 79 72 73 64 73 72 81 78 10
194	4/26	50 cal Blank	30	T1004	103 51 63 70 75 73 79 79 77 84 84 83 82 96 96 87 65 61 75 69 80 96 94 84 83 93 82 75 70 76 66 71 75 81 77 16
194	5/2	50 cal Blank	15	T1153	95 60 66 71 73 71 78 79 78 81 82 79 78 86 85 85 66 60 73 63 83 96 85 80 78 90 85 72 66 73 70 66 76 77 80 3
194	5/2	50 cal Blank	15	T1162	100 52 61 68 75 75 77 79 80 81 83 80 81 89 88 89 61 58 71 68 88 91 90 85 83 95 87 81 68 75 71 73 73 80 79 3
194	5/2	50 cal Blank	15	T1162	104 55 64 71 75 77 80 82 83 85 85 84 85 95 93 93 66 63 75 71 93 95 93 88 87 93 91 85 75 77 75 71 78 84 81 7

																																		Cnt	ID	Mass	Type	Date	Site
116	57	65	70	71	75	74	75	77	80	81	81	83	86	89	95	87	102	95	91	91	98	115	102	90	86	85	81	80	80	80	78	71	76	4	T1823	15	50 cal Blank	6/1	194
116	57	67	69	73	76	73	76	77	80	82	82	83	86	89	95	89	102	95	91	92	98	115	102	90	87	83	79	81	78	77	77	76	75	9	T1823	15	50 cal Blank	6/1	194
114	50	59	63	64	70	71	72	74	78	83	78	78	81	82	89	84	95	91	89	90	96	113	101	91	86	83	81	80	75	74	69	61	79	4	T1824	30	50 cal Blank	6/1	194
114	43, 52	59	63	66	71	70	72	75	79	83	79	79	81	81	89	84	96	91	89	90	96	113	101	90	86	83	80	79	75	78	74	61	77	10	T1824	30	50 cal Blank	6/1	194
104	39, 68	75	79	84	84	85	87	88	87	85	86	86	84	85	83	83	87	93	92	83	96	113	95	93	88	88	85	82	81	80	81	66	69	3	T1825	15	50 cal Blank	6/1	194
104	44, 69	77	79	81	84	85	87	88	88	86	86	86	84	84	83	85	87	93	93	91	96	96	95	91	88	85	85	82	82	85	84	65	65	8	T1825	15	50 cal Blank	6/1	194
100	42, 60	70	74	77	79	80	83	84	85	84	86	84	81	81	78	78	79	83	93	83	93	93	83	89	84	82	73	73	79	77	82		65	4	T1826	30	50 cal Blank	6/1	194
101	39, 62	70	74	77	78	79	82	83	84	84	84	84	81	80	82	79	79	83	83	88	94	94	90	93	87	83	80	75	80	79	78	66		10	T1826	30	50 cal Blank	6/1	194
103	52, 77	84	87	89	78	77	88	87	86	86	86	86	87	85	86	84	84	90	90	92	96	96	92	89	82	85	85	80	82	76	70	70	77	4	T1827	15	50 cal Blank	6/1	194
103	50, 74	83	86	88	88	88	87	86	86	86	86	87	83	89	90	83	84	89	90	96	96	96	93	86	80	85	85	83	80	74	77	71	68	9	T1827	15	50 cal Blank	6/1	194
99	58	67	71	74	78	80	79	81	81	82	81	82	81	80	80	86	79	89	84	85	92	92	88	91	83	86	81	79	79	76	75	58	60	4	T1828	15	50 cal Blank	6/1	194
99	53	64	70	73	76	78	79	80	81	81	81	81	82	80	80	86	78	82	85	86	92	92	91	91	83	87	82	83	79	77	75			9	T1828	30	50 cal Blank	6/1	194
114	46, 61	68	73	73	73	77	80	84	86	87	89	95	89	89	89	91	89	89	99	113	96	89	88	87	83	83	77	76	75	73	73	64	80	4	T1829	30	50 cal Blank	6/1	194
114	40, 60	68	72	73	74	77	80	82	85	88	88	95	89	88	90	91	88	88	98	113	95	88	87	82	84	82	79	72	77	70	64	62	69	9	T1829	15	50 cal Blank	6/1	194
113	55	64	68	70	73	77	81	81	85	86	86	92	90	89	97	90	87	90	99	113	89	86	80	79	76	80	73	70	76	71	68		67	4	T1830	30	50 cal Blank	6/1	194
113	40, 55	64	68	71	73	75	79	81	85	86	86	92	90	89	97	90	87	89	99	113	88	86	83	80	77	85	73	71	79	77	71	58	71	9	T1830	30	50 cal Blank	6/1	194
99	40	64	71	71	82	75	79	81	85	82	81	86	81	82	82	79	79	88	80	89	89	91	87	86	78	77	78	77	65	75	67			4	T1984	30	50 cal Blank	6/1	194
99	66	76	79	82	82	83	85	86	87	85	86	85	82	82	86	89	79	82	80	88	89	89	84	90	82	78	80	78	72	73				4	T1984	30	50 cal Blank	6/13	197
98	64	71	78	79	79	81	83	85	86	84	88	83	82	81	83	80	76	79	80	85	86	94	87	83	77	77	74	73	75	70	67			5	T1985	45	50 cal Blank	6/13	197
95	63	67	70	74	75	79	79	80	74	80	80	86	79	78	80	76	73	75	76	82	85	91	87	81	76	76	73	73	70	71	69	62	64	9	T1985	45	50 cal Blank	6/13	197
92	48, 57	62	67	71	72	76	75	77	77	84	85	82	84	82	84	84	71	72	73	82	84	82	84	80	80	76	74	71	68	71	71	64	67	9	T1986	30	50 cal Blank	6/13	197
108	55	60	66	67	69	73	71	76	77	77	83	81	81	86	82	72	83	82	77	81	82	98	90	86	81	78	79	80	68	79	75	68	69	9	T1986	30	50 cal Blank	6/13	197
106	53, 57	58	63	66	65	67	70	73	78	83	80	85	80	79	81	89	82	83	86	95	87	96	84	87	78	80	77	73	70	67	70	69	60	5	T1987	45	50 cal Blank	6/13	197
104	43, 52	52	59	62	62	67	64	74	74	84	84	82	78	75	83	80	80	90	90	95	90	91	86	85	73	75	73	75	71	74	71	64	64	9	T1987	45	50 cal Blank	6/13	197
101	40, 69	79	81	83	83	83	86	85	86	84	85	92	87	90	92	82	81	81	84	92	92	83	92	89	81	80	83	86	81	83	83	69	69	9	T1988	45	50 cal Blank	6/13	197
91	58, 69	75	79	81	83	83	85	86	86	76	77	77	73	90	77	72	70	75	80	78	81	83	80	82	74	73	73	76	70	67	62	71	69	2	T1989	30	50 cal Blank	6/13	197
111	61, 67	70	71	72	74	77	83	84	85	88	87	87	88	97	94	88	90	88	97	110	84	85	85	80	82	80	78	80	77	74	81	77	86	9	T1990	30	50 cal Blank	6/13	197
103	51, 57	60	62	64	66	69	74	75	77	77	77	76	72	87	82	77	80	79	89	102	78	82	72	76	69	69	67	69	67	67	70	77	86	2	T1991	45	50 cal Blank	6/13	197
110	46, 49	55	60	62	64	66	66	69	73	76	74	76	76	85	82	83	83	87	99	110	83	90	78	80	83	72	76	72	69	68	71	68	69	2	T901	45	50 cal Blank	5/30	198

Data table (rotated 90°). Each record lists a site/test number, date, charge type ("50 cal Blank"), round count, round ID, a gauge index, and a series of measured values.

Site	Date	Charge	Count	Round ID	Idx	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-	\-
198	5/30	50 cal Blank	45	T901	7	73	70	68	72	67	71	74	77	80	81	85	91	111	100	88	84	84	96	83	86	77	78	74	75	72	70	70	68	67	65	60	56	51	47	112
198	5/30	50 cal Blank	45	T903	2	62	60	66	71	72	76	78	80	81	84	87	88	88	87	85	81	79	79	76	76	77	78	77	76	76	76	74	73	71	69	65	60	50	37	96
198	5/30	50 cal Blank	45	T903	7	60	56	62	72	70	76	80	80	82	86	89	90	90	89	87	83	81	81	75	75	75	75	75	75	73	71	70	68	68	68	64	59	49	28	97
198	5/30	50 cal Blank	60	T905	3	61	61	62	71	70	75	77	79	81	83	81	84	87	84	80	78	78	76	72	72	73	73	72	73	73	71	71	69	66	63	58	52	43	37	94
198	5/30	50 cal Blank	60	T905	7	60	56	64	70	71	76	78	79	84	84	87	85	87	83	80	77	77	76	71	70	71	71	70	73	73	71	69	67	64	61	56	50	39	29	94
198	5/30	50 cal Blank	60	T906	3	71	66	70	68	68	69	72	75	77	82	83	77	92	95	83	79	80	92	77	74	74	76	71	70	67	65	64	60	55	56	55	51	49	47	107
198	5/30	50 cal Blank	60	T906	7	71	71	71	68	68	71	72	78	78	81	83	78	91	96	82	80	80	91	78	73	73	70	70	69	65	63	62	58	52	50	56	48	46	41	106
201	6/21	50 cal Blank	60	T1520	3	70		73	70	74	74	74	77	77	81	81	88	85	91	83	101	91	85	81	78	75	84	86	88	88	90	82	82	76	73	69		60		110
201	6/21	50 cal Blank	60	T1520	7	62			70	73	71	69	73	74	77	77	82	81	86	81	98	85	82	86	79	73	79	82	81	80	85	77	76	75	69	67	54	54	41	105
201	6/21	50 cal Blank	60	T1520	11	71		74	70	74	75	74	71	77	77	83	84	83	91	83	99	88	83	90	77	71	82	82	82	81	86	78	77	73	71	67	60	52		108
201	6/21	50 cal Blank	30	T1521	3	75	65	77	75	75	76	82	83	81	91	92	92	90	100	90	99	92	83	96	81	77	79	82	79	78	82	78	77	71	70	75	61	41	41	114
201	6/21	50 cal Blank	30	T1521	14	65		77	75	72	74	80	82	80	87	87	90	89	100	89	103	92	87	89	80	75	82	82	85	85	86	80	78	73	70	70	60	41	41	113
201	6/21	50 cal Blank	60	T1522	3	70			67	71	67	74	64	74	75	75	75	72	76	73	75	72	72	75	75	77	78	77	76	75	73	73	71	68	73	67	52			90
201	6/21	50 cal Blank	60	T1522	6			74	61	63		71	64	71	67	70	71	67	71	69	71	67	68	71	73	71	73	73	73	71	68	70	71	68	68	67	61	61	41	85
201	6/21	50 cal Blank	60	T1522	10			73	72	66	69	70	69	70	73	73	73	73	73	70	71	68	68	70	77	72	73	73	75	77	77	77	75	73	70	68	64	54		87
201	6/21	50 cal Blank	60	T1523	3	64	75	73	72	73	72	77	80	78	83	85	88	85	88	90	90	89	85	81	83	75	87	89	89	90	92	92	89	89	91	90	81	56	56	102
201	6/21	50 cal Blank	60	T1523	14	74	76	74	73	64	74	76	80	77	82	84	84	83	88	89	90	89	83	80	81	77	85	84	86	87	92	88	87	84	88	86	77	52	52	101
201	6/21	50 cal Blank	60	T1530	3	69	65	71	74	68	72	80	82	80	87	89	94	96	109	92	84	82	87	84	85	80	81	83	86	85	78	76	76	72	71	68	65	61	57	110
201	6/21	50 cal Blank	60	T1531	2	66	64	68	72	63	70	74	80	76	79	79	97	91	108	91	85	82	85	77	81	79	83	77	80	74	76	75	72	72	68	67	63	59	55	109
201	6/21	50 cal Blank	60	T1532	3	68	65	68	70	69	70	73	75	73	81	79	81	92	92	91	85	81	84	74	81	79	81	77	78	72	74	74	74	73	72	70	68	59	34	88
201	6/21	50 cal Blank	60	T1533	2	43	44	50	47	54	56	61	65	69	65	74	73	70	74	67	73	69	75	73	77	75	78	78	78	71	73	75	74	73	70	68	59	51	34	88
205	6/6	50 cal Blank	75	T1038	3	43	53	50	40	48	52	66	69	70	66	76	89	107	74	73	79	67	70	73	75	77	77	77	78	76	72	68	70	71	64	60	54	51	51	108
205	6/6	50 cal Blank	75	T1038	8	74	76	73	72	66	66	67	73	73	73	79	94	110	75	77	83	71	72	78	80	81	83	78	76	72	75	75	73	71	65	58	54	54	52	110
205	6/6	50 cal Blank	90	T1040	3	72	73	75	74	71	72	75	80	76	82	80	91	107	66	69	77	62	64	69	71	73	71	74	76	73	71	66	67	64	62	60	57	54	54	107
205	6/6	50 cal Blank	90	T1040	7	69	69	68	64	63	68	70	74	74	83	80	91	108	67	68	73	62	63	70	75	79	79	76	70	67	66	66	60	57	55	58	48	51	47	108
205	6/6	50 cal Blank	75	T1041	3	68	65	64	65	61	66	67	73	75	69	81	91	108	70	69	84	62	64	65	67	71	81	77	72	71	69	62	61	60	58	54	51	49	49	108
205	6/6	50 cal Blank	75	T1041	7	50	53	50	45	48	48	53	65	61	67	65	67	70	70	73	74	62	63	64	65	65	65	74	77	76	74	71	69	59	61	61	51	51	42	86
205	6/6	50 cal Blank	90	T1043	3	74	76	73	72	66	66	70	69	66	71	71	71	73	74	78	71	61	64	66	70	73	73	76	78	75	71	70	70	68	64	60	54	54	37	90
205	6/6	50 cal Blank	90	T1043	7	72	73	75	74	71	72	74	63	58	63	66	66	67	78	73	69	62	66	64	73	71	73	74	76	70	66	64	60	55	57	60	44	29	83	83
205	6/6	50 cal Blank	120	T1045	3	68	65	68	64	61	66	73	64	58	64	67	67	67	65	70	62	64	65	63	67	71	71	76	74	73	66	66	62	57	57	63	47	33	85	85
205	6/6	50 cal Blank	120	T1045	7	39	41	41	40	41	41	48	57	53	63	63	61	63	67	68	61	62	64	66	67	67	66	69	69	69	68	67	64	58	60	49	36	23	22	79

						C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29	C30	C31	C32	C33	C34	C35	C36
205	6/6	50 cal Blank	120	T1047	3	65	64	64	65	64	62	64	64	66	68	70	75	87	104	87	78	74	77	88	70	80	75	75	70	66	64	61	58	59	54	52	50	47	45	44	104
205	6/6	50 cal Blank	120	T1047	7	62	60	60	61	63	58	63	67	67	69	70	76	88	103	88	78	74	77	88	70	82	77	76	67	67	66	64	61	62	57	55	54	49	46	44	104
205	6/6	50 cal Blank	75	T1320	3	46		44	46	45		45	48	51	52	56	59	58	58	59	63	66	61	58	62	65	66	56	59	57	53	53	52	51	54	58	53		45	31	78
205	6/6	50 cal Blank	75	T1320	7	37	37	48	44	47	47	47	47	52	55	58	64	66	58	64	67	68	74	72	73	74	71	65	66	61	52	54	53	53	54	54	58	61	52	41	84
205	6/6	50 cal Blank	75	T1320	11	40		41	47	46	46	46	53	56	60	60	66	66	57	60	74	75	76	72	71	76	72	66	66	61	56	57	52	55	54	59	66	61	52	47	86
205	6/6	50 cal Blank	90	T1322	3	48	50	37	43			51	57	58	60	63	63	61	65	65	69	73	76	73	71	70	66	61	61	57	51	52	55	54	59	57	61	57	54	48	84
205	6/6	50 cal Blank	90	T1322	7	49	65	48	41	43	46	53	58	63	66	66	69	64	69	64	69	78	76	76	78	77	74	66	64	61	53	51	59	60	58	64	67	59	49	27	86
205	6/6	50 cal Blank	75	T1323	3	63	65	70	69	69	53	68	69	68	71	75	75	80	80	76	76	78	78	77	77	71	76	69	70	65	58	54	61	68	67	71	72	59	42	37	97
205	6/6	50 cal Blank	75	T1323	7	72	73	73	68	69	71	72	74	73	77	78	79	87	90	95	97	99	81	80	81	76	80	77	76	69	61	54	51	69	61	54	61	54	51	49	104
205	6/6	50 cal Blank	75	T1323	11	62	63	59	59	66	65	70	69	75	78	77	77	99	103	95	99	95	76	81	82	74	82	86	85	85	84	87	81	66	62	59	59	54	52	50	105
205	6/6	50 cal Blank	90	T1325	3	71	65	64	67	67	67	70	72	74	73	77	81	95	104	95	99	85	76	74	81	70	73	84	81	85	82	85	82	73	63	59	56	48	45	44	104
205	6/6	50 cal Blank	90	T1325	7	68	70	72	66	70	67	70	76	79	82	82	85	99	104	99	82	88	82	82	85	75	77	80	81	89	84	84	82	73	69	65	61	57	55	53	106
205	6/6	50 cal Blank	120	T1327	6	69	69	67	73	69	68	67	78	75	78	75	78	83	99	83	76	82	78	85	84	71	75	84	82	85	80	77	72	67	64	60	58	50	48	46	101
205	6/6	50 cal Blank	120	T1329	3	62	60	61	61	68	57	56	72	71	69	55	62	61	59	61	63	59	63	62	62	71	72	72	70	69	65	64	68	72	56	53	51	49	36	25	80
205	6/6	50 cal Blank	120	T1329	6	54	51	54	44	69	44	41	74	77	78	56	60	64	59	62	67	66	67	67	68	72	73	73	69	71	58	58	63	73	58	52	39	25	82		
207	4/27	50 cal Blank	60	T883	3	65	64	63	73	78	71	77	77	77	79	80	85	85	86	85	80	73	74	74	75	76	75	74	73	74	62	59	62	65	59	53	48	94			
207	4/27	50 cal Blank	60	T883	9	65	66	63	74	79	74	82	85	87	87	88	89	88	89	90	83	76	76	76	77	77	76	76	76	77	65	69	60	54	48	97					
207	4/27	50 cal Blank	60	T883	13	55	64	61	71	74	73	79	83	85	85	87	85	88	88	88	82	75	74	75	75	76	75	75	75	76	63	59	54	49	96						
207	6/7	50 cal Blank	30	T1837	3		70	70	71	78	80	77	80	81	84	80	80	95	108	95	89	81	77	92	85	85	84	86	86	90	84	64	58	110							
207	6/7	50 cal Blank	30	T1837	11	72	69	73	79	80	75	81	81	82	86	86	82	96	109	96	90	93	92	94	85	87	85	85	82	87	69	65	58	111							
207	6/7	50 cal Blank	30	T1839	10	61	69	71	79	84	82	90	84	85	82	84	84	94	94	95	89	87	84	87	84	90	77	73	69	77	69	58	52	39	40	104					
207	6/7	50 cal Blank	60	T1841	3	58	58	67	69	77	74	81	81	84	85	86	80	86	87	85	84	76	75	76	84	84	73	72	71	72	65	56	49	43	48	34	96				
207	6/7	50 cal Blank	60	T1841	7	60		71	71	69	77	79	83	83	81	85	79	88	89	87	84	77	76	75	88	83	71	69	68	69	59	54	51	54	39	33	96				
207	6/7	50 cal Blank	60	T1843	3	65	65	69	68	74	74	82	83	80	81	86	82	92	97	102	94	74	80	82	81	86	83	76	74	69	51	43	59	65	37	35	104				
207	6/7	50 cal Blank	60	T1843	7	66		69	71	78	77	84	85	83	84	88	85	94	100	104	89	77	85	82	83	85	84	70	74	65	49	58	65	49	40	106					
207	6/7	50 cal Blank	90	T1845	3	63	55	67	68	81	72	76	81	83	86	83	80	89	92	94	89	74	72	69	65	77	85	52	37	99											
207	6/7	50 cal Blank	90	T1845	6	64	51	63	64	78	78	80	83	80	84	82	75	84	89	84	84	71	72	67	59	73	79	43	38	95											
207	6/7	50 cal Blank	90	T1845	11		51	59	61	78	73	82	82	84	82	84	82	94	90	90	84	67	71	68	58	68	75	48	54	39	33	96									
207	6/7	50 cal Blank	90	0	0	61	65	67	72	72	75	77	79	73	75	74	81	79	82	83	82	67	72	73	74	75	75	62	56	45	40	91									

Area	Date	Type	Dur	Code	#	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30	V31	V32	V33	V34
207	6/7	50 cal Blank	90	T1846	6	54	61	66	69	69	71	74	77	78	80	79	77	76	69	65	65	71	70	71	72	75	74	76	74	74	72	68	65	61	54	45	37	30	88
207	6/7	50 cal Blank	90	T1846	11	57	56	59	64	69	72	75	77	80	81	80	78	78	69	66	66	67	68	69	70	71	71	71	71	71	71	66	62	59	53	43	39	39	88
207	6/15	50 cal Blank	30	T1512	3		64		57	65	72	76	81	82	84	85	84	86	74	71	71	73	74	75	76	76	77	85	87	81	78	81	83	78	71	65	70	44	97
207	6/15	50 cal Blank	30	T1512	7	60		63	65	70	72	78	83	84	88	87	89	75	75	71	71	74	78	82	79	84	85	87	87	81	81	81	86	83	72	75	70	47	98
207	6/15	50 cal Blank	30	T1513	3		63	72	70	72	75	78	81	84	90	84	93	72	84	69	82	75	83	83	89	90	88	87	88	86	86	87	86	84	74	72	70	60	106
207	6/15	50 cal Blank	30	T1513	7	70	65	64	74	74	77	80	82	85	90	84	93	75	86	70	83	84	84	79	100	104	93	77	83	82	81	77	74	70	65	60	65	40	
207	6/15	50 cal Blank	90	T1513	3	71	72	77	75	69	79	80	85	89	89	83	93	73	86	69	84	78	83	78	100	104	93	77	84	85	84	78	74	73	69	68	65	62	106
207	6/15	50 cal Blank	90	T1514	3		59	67	71	73	77	78	82	85	82	90	84	73	66	55	64	70	73	77	90	94	84	77	89	85	83	79	78	65	59	56	54	37	96
207	6/15	50 cal Blank	60	T1514	7		67	71	69	75	77	81	81	84	86	94	88	77	70	59	59	70	77	81	94	98	88	80	89	82	77	81	71	65	60	58	44	44	100
207	6/15	50 cal Blank	60	T1515	3	66	65	70	72	74	76	78	81	84	88	96	90	81	76	73	76	76	81	82	96	101	90	82	89	85	82	79	75	73	69	64	64	57	34
207	6/15	50 cal Blank	60	T1515	5	60	61	63	67	71	74	76	78	82	86	94	89	80	76	73	76	76	80	83	94	99	89	82	89	79	79	75	72	72	67	64	64	54	34	102
207	6/15	50 cal Blank	90	T1516	3	59	58	56	62	63	67	68	70	74	78	65	64	66	59	60	61	61	65	66	65	66	64	71	71	72	68	70	67	65	60	55	45		81
207	6/15	50 cal Blank	90	T1516	7		61		53	55	58	60	59	63	60	68	62	61	62	59	61	62	65	62	68	68	66	72	71	71	68	69	68	61	56	59	48		84
207	6/15	50 cal Blank	60	T1517	3	61	65	62	64	59	64	66	65	68	68	71	74	73	74	65	62	68	69	72	71	73	76	75	84	83	81	71	66	64	59	69	60	40	92
207	6/15	50 cal Blank	60	T1517	6		59	57	58	49	60	67	66	67	68	71	70	74	74	65	62	69	66	71	75	78	76	73	83	79	81	71	72	72	59	72	62	36	94
216	5/8	50 cal Blank	120	T1186	3	35	44	64	62	60	72	73	77	80	83	79	75	75	59	59	61	62	65	66	92	88	75	75	86	84	82	79	74	79	60	72	43	21	86
216	5/8	50 cal Blank	120	T1186	6	51	59	63	67	69	73	74	77	78	84	79	75	77	60	60	61	65	66	69	92	90	77	73	70	68	66	63	69	63	56	50	32	21	86
216	5/8	50 cal Blank	120	T1186	8	50	59	66	70	72	74	75	76	80	81	79	78	74	58	58	62	68	65	65	81	62	62	71	69	69	63	61	66	56	50	43	32	23	86
216	6/1	50 cal Blank	90	T1422	3	59	42	40	68	71	75	76	80	81	83	96	92	79	55	58	62	74	75	71	62	62	61	71	74	81	69	66	66	59	53	45	34	24	88
216	6/1	50 cal Blank	90	T1422	6	54	33		42	48	71	71	73	76	81	97	92	78	61	61	70	74	75	69	62	62	60	71	73	76	68	64	66	56	53	45	34	24	99
216	6/1	50 cal Blank	120	T1424	4	47		38	39	43	65	69	73	77	84	92	88	75	61	61	69	71	71	66	60	60	55	69	72	76	68	63	64	54	50	57	54	51	84
216	6/1	50 cal Blank	120	T1424	3	56	41		40	46	66	71	74	77	83	92	88	75	62	61	61	69	70	66	51	62	56	73	72	73	68	63	63	50	46	57	51	51	99
216	6/1	50 cal Blank	120	T1427	7	44	36		42	49	68	73	77	80	83	92	88	75	56	56	61	66	66	69	52	62	56	73	70	72	68	63	50	46	43	40	43	40	95
216	6/1	50 cal Blank	90	T1456	3	59	63	65	68	69	71	73	75	80	84	92	90	77	74	60	62	69	74	81	81	94	81	75	75	74	70	69	59	59	54	50	46	44	96
216	6/1	50 cal Blank	90	T1456	7	62	57	60	65	66	67	74	75	77	78	81	80	78	74	74	60	60	63	66	80	93	76	71	70	69	63	60	59	59	55	52	47	29	85
216	6/1	50 cal Blank	120	T1458	3	59	61	62	65	67	70	71	73	77	77	80	92	78	71	71	58	58	62	65	81	92	71	71	68	68	60	58	66	58	57	52	47	26	84
216	6/1	50 cal Blank	120	T1458	6	48	55	59	57	63	68	70	72	75	75	79	91	75	70	70	55	56	61	63	80	91	70	69	68	66	59	54	59	53	54	46	41	25	82
216	6/1	50 cal Blank	120	T1458	9	53	59	66	63	66	71	73	74	78	77	79	90	75	75	68	56	56	63	66	68	90	72	69	66	66	59	53	59	53	53	43	41	27	83
216	6/1	50 cal Blank	120	T1458	11	36	53	59	61	65	67	69	71	75	75	77	90	77	79	69	68	69	70	78	81	94	81	72	70	69	60	59	59	55	52	48	46	103
216	6/1	50 cal Blank	120	T1458		59	57	60	65	66	70	73	76	79	77	81	81	76	78	84	74	74	85	87	81	93	76	71	72	70	58	59	66	58	52	47	52	29	102
216	6/1	50 cal Blank	120	T1458		59	61	62	65	70	71	72	75	78	77	80	92	75	81	79	71	71	86	87	81	91	70	70	68	69	56	57	66	58	54	46	43	41	101
216	6/1	50 cal Blank	120	T1458	6	48	55	57	63	66	69	72	72	78	79	79	91	67	79	70	68	69	81	80	90	99	67	69	66	66	54	56	57	53	52	44	41	39	99
216	6/1	50 cal Blank	120	T1458	9	53	59	66	60	63	66	69	69	78	78	78	90	67	78	68	68	69	79	79	77	99	66	68	65	65	52	51	54	51	51	43	41	39	99
216	6/1	50 cal Blank	120	T1458	11	36	53	54	61	65	67	69	71	75	78	77	90	65	77	67	69	70	79	78	77	98	65	67	64	64	52	49	51	49	49	40	39	99

216	6/1	50 cal Blank	90	T1459	4	39	38	38	30	42	47	52	57	62	65	68	68	71	68	68	63	66	70	71	72	74	73	72	70	68	66	63	60	56	50	41	83
216	6/1	50 cal Blank	90	T1459	7	36	42	38	38	39	46	52	57	61	64	67	67	70	69	63	63	67	69	71	72	73	73	72	70	68	65	63	59	55	48	39	83
216	6/1	50 cal Blank	120	T1461	4	36	37		30	43	44	49	54	57	61	63	63	66	64	62	58	60	66	70	71	74	73	72	70	68	63	59	55	55	49	42	81
216	6/1	50 cal Blank	120	T1461	6		30		39	43	47	52	55	55	58	60	60	66	64	62	60	60	66	68	71	73	72	71	68	63	59	57	53	55	47	40	79
216	6/1	50 cal Blank	120	T1461	9	41		42	44	44	45	46	52	55	60	60	60	63	61	60	58	58	66	67	69	70	69	68	66	63	60	57	52	46	46	39	29	78
216	6/1	50 cal Blank	120	T1461	12	36	39		38	42	45	52	55	55	58	60	59	61	59	59	58	56	62	65	67	69	69	68	66	63	60	56	52	46	46	38	27	78
216	6/1	50 cal Blank	120	T1462	3				38	42	48	52	55	55	58	60	58	60	58	59	58	56	62	65	67	69	69	68	66	63	60	57	52	46	46	38	27	78
216	6/1	50 cal Blank	120	T1462	6	39	40		42	43	46	51	55	56	59	60	59	62	60	57	54	57	71	73	76	79	79	77	76	73	70	66	61	57	51	45	37	26	78
216	6/1	50 cal Blank	120	T1462	9		38		41	40	48	53	56	59	61	63	61	63	61	57	55	57	71	73	76	80	80	79	77	75	70	65	61	57	52	46	38	28	79
216	6/1	50 cal Blank	120	T1463	3	61	62	63	65	65	69	71	73	73	76	80	80	99	92	77	69	76	80	92	89	89	87	82	76	73	68	63	55	51	43	41	38	100
216	6/1	50 cal Blank	120	T1463	6	53	53	57	67	63	67	69	72	73	75	78	77	99	91	79	70	72	74	94	89	88	80	78	77	72	66	56	52	51	42	39	37	100
216	6/1	50 cal Blank	120	T1463	9	51	57	57	68	66	67	70	73	76	76	79	77	99	91	79	71	73	74	91	91	89	82	79	79	74	67	56	52	51	42	40	38	100
218	6/8	50 cal Blank	30	T1606	3	70	71	73	75	75	79	82	85	87	89	95	96	101	92	87	83	85	96	103	101	92	89	80	80	79	73	68	64	52	0	107
218	6/8	50 cal Blank	30	T1606	6		74	74	76	79	81	83	86	88	89	96	96	102	93	88	84	86	96	104	102	93	89	81	83	81	74	68	65	56	41	108
218	6/8	50 cal Blank	30	T1608	3		71	70	65	68	53	71	73	75	79	82	79	82	77	79	81	82	79	77	82	77	79	85	82	84	81	78	70	66	44	96
218	6/8	50 cal Blank	30	T1608	6				63	56	66	69	73	73	73	80	80	82	83	80	84	86	77	77	80	71	72	86	83	84	82	80	78	70	44	97
218	6/8	50 cal Blank	60	T1610	3	55	61		61	59	52	63	65	68	70	73	73	73	75	70	65	66	78	72	68	65	71	75	72	74	72	69	67	63	34	87
218	6/8	50 cal Blank	60	T1610	6	58	56		61	60	55	68	70	72	72	74	74	74	78	74	70	72	80	77	77	67	72	74	75	74	74	68	64	54	88
218	6/8	50 cal Blank	90	T1612	4	55	64		63	52	64	64	64	67	68	67	70	72	74	67	58	67	86	91	83	76	76	72	63	70	68	63	56	48	85
218	6/8	50 cal Blank	90	T1612	7	2	65	64	62	56	64	63	64	63	65	69	69	69	75	65	55	64	87	94	83	91	83	76	60	69	68	64	57	49	84
218	6/8	50 cal Blank	60	T1613	2		63	63	62	56	73	76	80	84	85	83	90	92	96	83	80	83	84	94	88	84	71	72	76	70	66	59	54	47	34	102
218	6/8	50 cal Blank	60	T1613	8	63	68	67	69	66	73	77	80	85	86	84	92	94	97	85	82	82	84	95	97	89	75	79	82	76	72	70	58	51	34	104
218	6/8	50 cal Blank	90	T1615	3	55	64	66	72	66	74	78	82	85	86	78	88	91	94	79	74	73	74	92	90	85	63	80	83	69	70	68	53	46	34	99
218	6/8	50 cal Blank	90	T1615	6	58	55		69	67	73	75	76	76	77	77	76	88	86	88	77	73	76	91	89	83	60	79	74	58	60	49	53	48	88
221	6/23	50 cal Blank	30	T1373	2	75	62	71	71	62	72	74	78	80	81	83	91	109	110	109	83	84	87	98	93	86	60	71	82	49	41	41	47	112
221	6/23	50 cal Blank	30	T1373	8	65	67	75	73	67	73	78	81	82	82	84	91	109	110	109	82	84	89	99	91	87	73	79	82	64	60	55	48	113
221	6/23	50 cal Blank	30	T1375	2	63	55	67	57	42	53	60	66	70	75	78	78	82	81	81	83	83	81	79	80	84	81	84	82	81	64	73	50	96
221	6/23	50 cal Blank	30	T1375	8	55	49	48	65	68	59	63	72	75	76	77	83	83	83	82	84	86	86	85	84	86	86	85	84	80	73	47	97
221	6/23	50 cal Blank	60	T1376	4	69	62	65	68	66	71	74	77	78	76	72	77	80	86	82	77	76	67	77	78	91	83	83	72	67	62	59	56	53	51	106

Note: The following is a large rotated data table. Each record (row below) was printed as a vertical column in the page image. Identifier columns are transcribed at left; the numeric data fields follow in their original left-to-right order.

Site	Date	Type	ms	ID	(data values →)
221	6/23	50 cal Blank	60	T1377	4, 68, 64, 65, 66, 68, 70, 72, 75, 77, 77, 80, 86, 103, 104, 86, 82, 82, 92, 83, 87, 80, 78, 75, 74, 75, 77, 74, 71, 68, 67, 61, 58, 56, 53, 51, 107
221	6/23	50 cal Blank	60	T1378	4, 50, —, 46, 42, 36, 47, 49, 53, 59, 63, 66, 70, 71, 71, 70, 66, 67, 69, 75, 75, 76, 78, 78, 78, 79, 78, 78, 75, 75, 74, 72, 69, 60, 37, 88
221	6/23	50 cal Blank	60	T1379	3, 51, 50, 48, 45, —, 45, 48, 55, 60, 63, 67, 71, 72, 70, 69, 67, 69, 73, 76, 77, 78, 80, 80, 79, 79, 78, 78, 75, 75, 73, 73, 71, 64, 49, 89
222	6/8	50 cal Blank	30	T1888	5, 71, 70, 74, 72, 69, 73, 77, 78, 81, 81, 85, 90, 107, 109, 90, 86, 88, 97, 89, 89, 85, 86, 82, 80, 80, 76, 74, 72, 70, 68, 66, 61, 52, 43, 112
222	6/8	50 cal Blank	30	T1888	8, 68, —, 69, 68, 68, 75, 76, 77, 80, 81, 85, 87, 107, 109, 90, 85, 86, 97, 89, 89, 85, 85, 79, 76, 80, 75, 74, 71, 70, 64, 60, 52, 111
222	6/8	50 cal Blank	15	T1889	5, 79, 71, 73, 78, 77, 81, 82, 82, 84, 84, 88, 94, 110, 111, 93, 88, 90, 101, 94, 94, 88, 86, 86, 83, 83, 74, 76, 75, 72, 63, 114
222	6/8	50 cal Blank	15	T1889	8, 78, 68, 75, 78, 75, 82, 81, 83, 84, 85, 87, 94, 110, 113, 94, 87, 90, 102, 94, 94, 90, 86, 86, 83, 81, 80, 82, 75, 73, 70, 62, 115
222	6/8	50 cal Blank	30	T1891	5, 70, —, 73, 75, 74, 77, 79, 82, 84, 84, 88, 91, 92, 91, 90, 80, 80, 81, 81, 81, 81, 81, 82, 80, 81, 78, 78, 75, 74, 73, 69, 60, 100
222	6/8	50 cal Blank	30	T1891	8, 70, 57, 70, 75, 74, 77, 79, 82, 84, 87, 90, 90, 91, 91, 90, 80, 80, 80, 81, 81, 80, 80, 80, 81, 80, 79, 78, 73, 69, 69, 60, 40, 99
222	6/8	50 cal Blank	15	T1892	5, 78, 76, 76, 82, 79, 83, 83, 84, 87, 87, 89, 91, 90, 95, 95, 90, 90, 92, 91, 91, 93, 91, 90, 91, 90, 88, 89, 76, 78, 85, 54, 105
222	6/8	50 cal Blank	15	T1892	8, 82, 75, 84, 84, 81, 84, 84, 84, 87, 89, 92, 92, 95, 95, 92, 92, 93, 92, 92, 91, 92, 91, 92, 90, 89, 89, 87, 81, 55, 106
222	6/8	50 cal Blank	60	T1893	4, —, 65, 70, 73, 68, 73, 75, 78, 80, 82, 85, 85, 79, 79, 84, 74, 74, 73, 75, 76, 76, 76, 74, 74, 92
222	6/8	50 cal Blank	60	T1893	8, 64, 66, 69, 71, 72, 74, 77, 78, 81, 83, 86, 86, 80, 80, 89, 77, 77, 76, 76, 77, 76, 77, 77, 74, 73, 70, 71, 63, 54, 44, 94
222	6/8	50 cal Blank	60	T1894	4, —, 57, 74, 74, 72, 77, 77, 79, 80, 80, 83, 87, 104, 105, 89, 81, 82, 87, 83, 81, 76, 77, 72, 74, 74, 74, 74, 70, 72, 66, 55, 45, 39, 108
222	6/8	50 cal Blank	60	T1894	8, 65, 67, 74, 72, 72, 79, 78, 79, 83, 83, 87, 91, 105, 106, 91, 83, 84, 88, 83, 80, 76, 82, 76, 81, 80, 80, 72, 68, 62, 53, 41, 109
227	6/15	50 cal Blank	90	T1492	3, 53, 48, 46, 51, 50, 52, 52, 56, 60, 65, 71, 75, 63, 58, 67, 66, 74, 71, 75, 74, 68, 76, 71, 74, 72, 72, 69, 65, 62, 55, 54, 34, 84
227	6/15	50 cal Blank	90	T1492	7, 56, 55, 50, 48, 52, 56, 58, 62, 66, 68, 71, 76, 65, 59, 68, 66, 77, 77, 80, 78, 71, 78, 75, 77, 76, 73, 70, 67, 62, 57, 54, 85
227	6/15	50 cal Blank	60	T1493	4, 48, 46, 47, 46, 52, 54, 57, 61, 66, 68, 70, 74, 71, 69, 72, 70, 76, 77, 80, 78, 74, 78, 74, 73, 72, 74, 71, 70, 66, 54, 48, 89
227	6/15	50 cal Blank	60	T1493	7, 44, 44, 43, 44, 50, 57, 63, 67, 70, 70, 74, 77, 74, 72, 74, 74, 78, 78, 82, 78, 76, 78, 76, 73, 70, 71, 71, 68, 64, 48, 91
227	6/15	50 cal Blank	90	T1494	3, 62, 59, 66, 66, 70, 73, 74, 74, 72, 74, 78, 79, 98, 90, 80, 84, 79, 82, 80, 84, 83, 82, 79, 71, 68, 74, 74, 66, 63, 54, 45, 100
227	6/15	50 cal Blank	90	T1494	7, 63, 54, 54, 54, 69, 72, 74, 75, 77, 78, 80, 84, 99, 91, 91, 81, 84, 84, 83, 80, 80, 75, 73, 72, 64, 67, 61, 58, 54, 49, 47, 101
227	6/15	50 cal Blank	60	T1495	4, 68, 64, 65, 68, 72, 74, 75, 75, 78, 80, 80, 80, 100, 92, 90, 85, 87, 85, 78, 82, 72, 74, 74, 72, 65, 64, 64, 60, 54, 50, 47, 102
227	6/15	50 cal Blank	60	T1495	7, 63, 56, 54, 64, 67, 72, 75, 78, 82, 80, 82, 84, 103, 94, 91, 87, 89, 84, 78, 84, 74, 74, 72, 69, 66, 64, 64, 60, 55, 50, 47, 104
227	6/15	50 cal Blank	30	T1497	4, 73, 69, 75, 75, 79, 74, 78, 82, 84, 84, 90, 90, 110, 103, 96, 86, 90, 89, 84, 85, 81, 83, 84, 79, 76, 74, 74, 71, 66, 59, 51, 111
227	6/15	50 cal Blank	30	T1497	18, 72, 65, 75, 75, 79, 78, 81, 82, 84, 84, 91, 91, 110, 103, 96, 88, 91, 90, 85, 86, 81, 83, 82, 79, 76, 76, 74, 72, 71, 62, 52, 112
227	6/15	50 cal Blank	30	T1499	4, 62, 59, 66, 69, 72, 75, 77, 75, 78, 78, 81, 81, 84, 84, 82, 89, 84, 93, 90, 95, 93, 92, 90, 90, 89, 90, 89, 87, 86, 80, 72, 102
227	6/15	50 cal Blank	30	T1499	18, 67, 59, 67, 65, 70, 74, 76, 76, 78, 82, 80, 81, 85, 83, 80, 90, 85, 95, 91, 95, 95, 91, 90, 91, 91, 90, 88, 87, 80, 71, 103
227	6/15	50 cal Blank	30	T1505	3, —, 61, 58, 69, 70, 72, 75, 74, 75, 77, 78, 81, 78, 76, 81, 85, 84, 88, 88, 87, 90, 89, 88, 87, 86, 87, 88, 86, 78, 53, 99
227	6/15	50 cal Blank	30	T1505	6, 64, 64, 71, 63, 73, 72, 74, 75, 78, 79, 81, 81, 80, 81, 83, 84, 84, 90, 91, 89, 90, 90, 90, 92, 92, 88, 89, 81, 56, 101
227	6/15	50 cal Blank	30	T1507	3, 64, 68, 74, 70, 76, 78, 79, 82, 83, 83, 86, 90, 106, 93, 86, 83, 82, 90, 81, 77, 74, 74, 74, 72, 70, 68, 66, 61, 108
227	6/15	50 cal Blank	30	T1507	6, 64, 69, 76, 73, 79, 80, 82, 83, 86, 88, 87, 91, 107, 94, 88, 87, 85, 91, 81, 78, 77, 75, 77, 75, 71, 69, 69, 61, 110

Site	Date	Type	No.	Sample																																					
227	6/15	50 cal Blank	60	T1508	3	61			68	71	76	78	79	82	86	91	99	100	88	82	81	76	72	67	87	80	80	80	76	73	69	72	66	65	64	67	68	60	36	103
227	6/15	50 cal Blank	60	T1508	7	51			69	70	76	78	79	81	86	91	99	100	88	81	79	76	70	68	85	79	80	77	73	73	69	69	65	64	62	63	63	53	30	103
227	6/15	50 cal Blank	90	T1509	3		51		62	71	71	74	76	79	82	87	95	98	84	76	72	70	68	64	77	73	73	71	70	65	64	65	56	56	58	58	62	49		101
227	6/15	50 cal Blank	90	T1509	6	64			66	69	73	75	76	78	82	87	95	98	84	76	72	71	71	66	80	76	76	74	71	69	69	73	62	56	58	57	66	57		101
227	6/15	50 cal Blank	60	T1510	3			58			54	60	45	62	65	68	70	70	68	66	66	67	72	73	76	77	79	80	74	78	69	73	69	67	63	66	65	57	39	91
227	6/15	50 cal Blank	60	T1510	7	51			58		55	56	58	60	64	67	71	70	69	66	65	67	70	73	77	78	78	80	75	75	72	77	74	74	64	63	69	62	36	91
227	6/15	50 cal Blank	90	T1511	3	61			59	48	57	58	#	62	63	65	67	70	63	60	59	61	68	70	75	75	72	75	77	74	70	77	74	74	52	63	63	52	37	85
227	6/15	50 cal Blank	90	T1511	6			57			56	53	52	61	63	64	67	67	64	60	59	62	68	71	73	75	74	74	75	74	73	75	77	74	57	50	52	50	84
228	4/27	50 cal Blank	90	T1143	6	58	54	56	64		56	73	75	78	81	84	85	83	84	80	73	70	72	72	70	72	71	72	65	58	62	66	58	52	56	47	42	36	33	92
228	4/27	50 cal Blank	90	T1143	9	52	50	51	62	70	70	74	76	78	83	87	88	86	86	83	78	74	74	76	70	72	74	73	62	56	59	62	56	52	56	51	46	41	39	94
228	4/27	50 cal Blank	90	T1143	13	60	57	52	59	72	72	76	76	80	83	87	88	88	87	83	77	75	76	75	70	73	75	74	66	62	66	65	57	52	57	51	46	41	37	95
228	5/1	50 cal Blanks	120	T491	3	52	49	59	63	68	68	70	71	73	76	77	79	79	74	68	60	57	60	63	61	63	65	63	52	59	56	52	46	46	52	40	28	26	85
228	5/1	50 cal Blanks	120	T491	8	46	54	59	63	70	70	73	75	78	81	84	79	74	74	70	60	58	60	63	63	64	65	63	56	58	56	52	47	40	40	31	31	33	86
228	5/1	50 cal Blanks	120	T491	13	42	48	59	62	70	70	74	76	79	83	87	79	74	74	70	59	56	59	62	62	63	65	62	59	56	56	52	46	40	40	28	29	92	86
228	5/4	50 cal Blank	240	T820	4	36	39	46	49	47	47	46	47	49	50	50	79	50	48	44	41	49	48	50	46	35	38	41	31	31	32	57	46	20	20	13	12	61
228	5/4	50 cal Blank	150	T821	3	35	46	51	59	67	67	68	71	73	73	74	74	75	65	58	54	52	54	58	60	60	61	60	59	49	52	56	46	45	39	32	23	16	81
228	5/4	50 cal Blank	150	T821	7	47	56	57	65	72	72	74	77	79	79	80	79	74	66	63	60	60	60	63	63	65	65	63	57	58	58	57	50	50	44	38	29	25	87
228	6/7	50 cal Blank	90	T1535	4	59	56	63	63	61	61	57	56	59	57	60	63	66	68	70	63	60	60	65	62	65	65	66	57	55	51	48	57	40	40	31	38	79
228	6/7	50 cal Blank	90	T1535	11			61	61	52	52	57	58	59	61	66	68	70	72	72	65	61	61	67	65	67	66	68	58	58	60	51	59	53	40	38	40	81
228	6/7	50 cal Blank	90	T1537	4			63	57	70	70	74	75	72	72	65	69	70	74	74	65	58	62	66	66	66	61	65	58	57	50	50	53	42	41	43	39	90
228	6/7	50 cal Blank	120	T1539	3			63	66	74	74	76	78	80	75	75	69	77	74	75	58	68	65	66	65	66	60	66	54	54	50	50	41	41	54	33	89
228	6/7	50 cal Blank	120	T1539	6	61	65	61	64	70	70	75	77	77	77	71	74	82	78	78	60	63	64	66	56	59	55	54	56	45	41	43	23	91
228	6/7	50 cal Blank	150	T1541	4	59	51	67	67	73	73	77	79	80	79	74	73	84	81	81	60	64	63	66	57	61	56	57	40	43	44	38	29	89
228	6/7	50 cal Blank	150	T1541	7	63		64	61	72	73	76	73	80	73	68	69	82	83	81	59	63	63	70	58	60	57	58	37	40	43	30	88
228	6/7	50 cal Blank	120	T1543	3	55		58	54	58	57	76	60	59	57	58	58	60	57	52	56	52	59	66	57	59	54	54	40	30	75
228	6/7	50 cal Blank	120	T1543	6	58		55	58	60	59	81	60	59	62	66	68	70	66	56	59	57	57	62	60	62	54	57	36	36	78
228	6/7	50 cal Blank	150	T1545	4	61		57	57	60	57	57	53	54	60	64	65	67	65	39	55	57	56	64	59	62	49	51	49	37	76
228	6/7	50 cal Blank	150	T1545	7	58		57	56	60	59	60	59	57	59	63	65	66	65	39	55	57	59	62	51	50	38	36	75

The following is a large rotated data table. Columns are: Site, Date, Type, Num, T‑Num, N (narrow column), then data values V1–V30 (read from the top of the rotated page).

Site	Date	Type	Num	T-Num	N	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30
228	6/7	50 cal Blank	90	T1546	3	76	34	46	52	57	60	63	65	66	67	67	67	65	62	59	58	49	58	60	57	60	61	60	62	62	58	57	58	59	60
228	6/7	50 cal Blank	90	T1546	9	79	34	49	57	59	63	66	67	69	70	70	70	68	65	63	62	57	62	63	59	64	67	63	63	63	57	59	57	65	65
228	6/7	50 cal Blank	90	T1548	3	98	34	49	56	55	59	63	64	65	66	64	64	67	73	61	61	70	80	92	95	86	81	79	80	83	68	70	68	81	83
228	6/7	50 cal Blank	90	T1548	9	99		47	56	60	60	63	66	65	65	64	66	65	74	62	61	70	81	93	96	87	84	84	81	84	70	72	70	84	84
228	6/7	50 cal Blank	120	T1551	2	91	37	37	45	41	50	52	53	56	56	58	56	56	62	66	62	63	85	85	88	81	82	78	80	78	63	63	56	78	78
228	6/7	50 cal Blank	120	T1551	5	93		34	42	48	50	54	53	46	57	54	55	58	66	67	66	66	87	80	91	83	76	78	79	77	66	73	59	79	79
228	6/7	50 cal Blank	150	T1553	2	86	31		40	41	46	50	51	46	55	59	57	57	60	67	67	69	80	81	83	76	78	72	80	80	61	71	51	73	73
228	6/7	50 cal Blank	150	T1553	5	88	34	35	44	44	51	54	53	49	55	56	58	57	62	67	68	72	81	64	76	78	75	75	80	80	76	75	56	75	75
228	6/7	50 cal Blank	120	T1555	2	72	30	42	35	35	46	46	46	36	53	36	56	54	60	60	66	58	0	55	83	59	75	58	80	60	59	58	58	60	60
228	6/7	50 cal Blank	120	T1555	5	74	35	39	47	39	51	51	49	46	57	46	56	57	64	61	62	60	85	59	73	62	75	62	72	57	51	57	54	57	57
228	6/7	50 cal Blank	150	T1557	2	69	35		41	35	44	46	51	41	57	57	50	47	56	51	58	57	81	53	76	59	76	62	78	48	61	59	59	48	48
228	6/7	50 cal Blank	150	T1557	5	71	39	30	43	0	57	49	52	44	53	55	55	54	58	60	59	57	0	55	72	50	76	53	79	53	59	59	56	53	53
289	5/9	50 cal Blank	60	T954	2	88	41	52	61	64	67	69	73	73	68	64	68	71	69	74	74	73	68	64	72	59	75	78	78	54	59	54	66	57	59
289	5/9	50 cal Blank	60	T954	5	93	45	57	61	61	72	73	78	79	74	68	69	73	72	79	79	73	74	68	78	65	78	79	84	59	67	59	73	68	65
289	5/9	50 cal Blank	60	T954	8	93	44	56	66	70	73	78	78	80	73	73	73	79	73	80	80	75	73	77	84	67	85	80	77	53	69	53	73	73	69
289	5/12	50 cal Blank	90	T1197	2	91	50	61	66	72	70	73	72	76	71	72	76	80	72	78	80	75	72	77	84	69	85	80	76	49	63	49	75	76	73
289	5/12	50 cal Blank	90	T1197	5	91	44	59	67	69	69	70	70	73	70	68	68	76	69	77	78	73	72	76	83	76	84	83	80	52	62	48	78	76	76
289	5/12	50 cal Blank	90	T1197	8	95	48	63	67	72	73	74	73	76	72	72	72	80	72	80	80	76	75	78	84	69	86	84	78	53	67	50	79	80	78
294/176	6/22	50 cal Blank	30	T1764	2	111	54	66	64	70	74	71	76	80	76	74	69	85	76	80	78	80	79	82	88	82	87	89	92	56	74	55	85	88	81
294/176	6/22	50 cal Blank	30	T1764	9	111	42	66	71	74	73	78	80	85	79	78	78	85	74	85	80	81	82	88	85	85	86	89	90	72	69	67	87	88	82
294/176	6/22	50 cal Blank	30	T1766	2	100		66	70	73	76	78	81	84	80	77	78	83	73	84	80	80	83	90	87	90	85	86	90	74	69	70	90	86	87
294/176	6/22	50 cal Blank	30	T1766	9	100	43	69	66	71	70	75	76	82	78	76	78	82	75	83	82	82	84	84	88	84	84	82	100	75	67	66	84	86	87
294/176	6/22	50 cal Blank	60	T1767	3	94	54	77	82	72	68	74	75	75	71	76	76	84	73	82	82	82	82	83	83	84	84	81	88	76	60	75	74	86	89
294/176	6/22	50 cal Blank	60	T1767	9	95	55	77	80	74	71	74	74	78	74	76	77	73	75	75	78	76	80	85	84	83	82	76	87	74	67	64	74	86	85
294/176	6/22	50 cal Blank	60	T1768	3	106	44	65	71	72	74	75	74	87	75	77	81	76	74	78	79	74	80	63	65	73	84	76	91	78	65	75	85	84	83
294/176	6/22	50 cal Blank	60	T1768	9	108	38	55	70	74	75	75	71	85	76	74	79	85	71	80	85	75	77	77	70	76	82	78	102	74	71	74	87	88	88
294/176	6/22	50 cal Blank	30	T1772	1	112	49	63	66	69	73	76	75	96	77	80	84	87	76	85	95	80	83	78	77	79	79	84	104	76	75	69	90	88	85
294/176	6/22	50 cal Blank	30	T1772	6	111	50	62	66	69	74	75	75	92	80	81	84	79	74	90	95	81	78	79	79	83	83	84	100	79	74	66	95	86	87
294/176	6/22	50 cal Blank	30	T1774	1	98	70	73	76	77	75	76	82	79	82	82	82	88	79	81	80	77	81	80	81	87	87	100	100	83	66	73	86	89	88
294/176	6/22	50 cal Blank	30	T1774	6	98	63	73	77	74	73	77	82	84	80	81	81	78	73	81	82	78	80	80	81	80	85	88	104	85	69	72	86	89	88
294/176	6/22	50 cal Blank	60	T1775	2	96	52	69	71	71	72	74	75	76	74	76	78	78	74	79	84	76	76	81	85	87	87	88	86	83	60	64	83	81	85

Site	Date	Type	Dur	Test	n	Data (sequential sound-level readings)
294/176	6/22	50 cal Blank	60	T1775	7	56 60 63 66 68 71 75 78 80 81 81 78 77 77 75 68 67 67 70 71 72 72 73 72 68 65 64 62 57 53 46 89
294/176	6/22	50 cal Blank	60	T1775	24	67 67 68 75 73 80 82 85 88 89 88 86 83 84 81 76 76 74 74 79 79 79 81 79 77 74 72 70 66 63 57 96
294/176.	6/22	50 cal Blank	60	T1776	2	56 68 72 77 73 76 78 82 90 86 85 82 81 80 78 75 76 74 75 76 76 75 75 74 72 70 66 61 60 54 46 111
294/176	6/22	50 cal Blank	60	T1776	7	59 68 69 69 70 71 76 79 84 76 76 73 75 74 77 70 68 69 72 72 71 76 74 74 72 69 67 62 61 60 54
294/176	6/22	50 cal Blank	60	T1776	24	65 72 74 74 73 71 76 83 87 91 93 95 94 86 82 80 83 81 84 85 86 87 83 78 75 73 71 67 65 59 50 42 105
294/176	6/22	50 cal Blank	30	T1779	2	60 74 73 77 78 79 77 81 88 86 81 85 84 88 95 102 104 81 81 91 82 84 85 89 91 93 95 97 88 80 67 59 52 46 112
294/176	6/22	50 cal Blank	30	T1779	8	62 70 66 71 75 77 77 80 85 84 85 80 83 80 84 103 104 87 85 88 86 81 88 93 89 95 92 104 108 85 81 78 74 70 64 59 53 110
294/176	6/22	50 cal Blank	30	T1781	2	76 76 71 75 75 80 79 78 80 84 82 90 82 86 84 80 82 85 83 89 87 92 85 91 84 86 90 103 105 85 80 78 76 71 67 64 60 54 108
294/176	6/22	50 cal Blank	30	T1781	7	72 72 77 76 79 82 81 82 82 81 86 80 82 84 88 86 89 89 87 90 91 89 93 91 90 97 96 100
294/176	6/22	50 cal Blank	60	T1783	2	67 62 74 75 76 74 74 75 73 74 76 74 74 77 81 82 85 81 83 89 80 85 86 82 88 89 83 88 86 81 77 75 73 70 67 61 98
294/176	6/22	50 cal Blank	60	T1783	6	70 63 76 76 73 74 75 75 76 76 76 73 74 75 81 85 89 83 85 89 81 85 84 80 86 82 76 83 84 82 80 78 76 72 70 66 62 57 94
294/176	6/22	50 cal Blank	60	T1784	3	66 69 74 75 74 74 75 75 73 74 75 72 74 78 89 99 101 85 80 90 85 86 87 85 92 92 90 105 106 86 85 85 85 83 78 72 66 52 54
294/176	6/22	50 cal Blank	60	T1784	6	67 73 74 75 77 78 74 75 76 74 73 73 77 77 100 98 90 90 91 94 91 96 91 92 104 117 113 115 91 85 84 83 80 76 71 65 56 47 96
296	6/7	50 cal Blank	15	T1563	5	67 81 86 88 87 86 82 80 85 82 84 83 86 83 90 92 94 95 92 91 96 97 99 101 98 117 105 103 91 88 87 84 83 79 75 68 58 54 47 107
296	6/7	50 cal Blank	30	T1564	4	75 77 80 83 82 79 85 87 85 80 84 85 88 84 88 85 92 90 90 91 88 91 93 90 93 97 99 96 78 74 76 77 76 69 56 45 38 108
296	6/7	50 cal Blank	30	T1564	8	80 71 79 81 82 85 80 83 85 83 90 91 85 88 88 91 92 86 94 90 89 91 100 115 113 97 81 81 83 85 81 77 70 64 47 118
296	6/7	50 cal Blank	15	T1566	5	65 76 76 72 78 79 77 80 80 85 84 86 85 85 85 93 91 85 90 81 81 71 72 74 75 76 66 68 67 61 58 56 45 114
296	6/7	50 cal Blank	30	T1567	4	69 59 81 79 79 82 85 88 88 90 91 95 80 86 89 89 83 78 74 83 86 84 72 73 71 72 75 73 74 58 41 116
296	6/7	50 cal Blank	30	T1567	8	80 77 82 88 87 86 95 98 99 91 92 89 94 94 100 105 93 78 80 77 85 85 72 73 74 73 68 57 61 108
296	6/7	50 cal Blank	60	T1568	3	81 71 79 85 88 95 90 93 91 88 85 84 86 88 99 91 91 86 81 86 94 92 74 74 72 74 67 58 48 99
296	6/7	50 cal Blank	60	T1568	8	65 76 74 79 88 90 80 85 82 81 85 90 90 93 92 95 100 106 105 97 76 81 85 85 90 87 75 69 71 50 100
296	6/7	50 cal Blank	60	T1569	3	64 72 77 76 73 77 81 76 74 76 67 68 72 74 78 79 91 88 91 100 103 103 63 66 67 71 73 70 66 58 34 86
296	6/7	50 cal Blank	60	T1569	8	62 64 74 77 77 78 79 79 80 80 74 74 75 75 80 83 93 91 91 105 105 74 72 72 76 78 77 71 67 58 34 87
296	6/7	50 cal Blank	30	T1574	2	73 78 77 73 79 80 82 81 84 81 83 83 84 84 85 90 92 104 106 94 85 86 86 78 80 78 76 72 63 57 37 107
296	6/7	50 cal Blank	30	T1574	9	72 67 79 78 74 74 79 80 80 86 85 86 90 92 93 83 91 105 105 95 86 83 84 84 85 79 71 70 71 69 62 59 54 49 107
296	6/7	50 cal Blank	15	T1575	3	69 74 76 74 72 74 70 69 74 72 78 80 79 80 89 90 76 93 91 103 97 81 81 81 82 85 80 77 76 71 69 67 60 58 51 106
296	6/7	50 cal Blank	15	T1575	7	70 76 77 72 75 74 69 70 70 79 81 78 78 81 90 93 76 92 91 105 108 88 79 86 86 87 81 78 75 72 67 62 58 52 107
296	6/7	50 cal Blank	30	T1577	3	75 79 75 73 79 78 76 73 74 80 84 84 89 90 84 81 76 74 75 69 84 86 81 91 92 90 76 78 85 82 76 72 70 67 61 109
296	6/7	50 cal Blank	30	T1577	7	57 57 74 73 76 78 77 73 72 75 85 86 88 87 81 79 74 75 92 94 94 90 86 83 84 88 87 85 78 76 73 68 63 110
296	6/7	50 cal Blank	30	T1577	8	66 71 72 75 82 86 84 86 81 81 83 84 85 87 84 79 75 69 73 76 81 87 86 83 81 81 83 86 83 79 71 45 96

296	6/7	50 cal Blank	15	T1578	3	67		71	72	60	70	72	73	76	77	77	77	77	80	82	82	77	78	82	84	86	88	92	92	92	89	90	88	87	90	88	87	81	56	101
296	6/7	50 cal Blank	15	T1578	7	63		72	72	71	71	74	75	77	79	79	79	79	81	84	85	80	81	84	86	87	90	93	92	92	93	93	91	90	92	91	90	82	57	103
296	6/7	50 cal Blank	60	T1580	3	65		65	63			64	61	52	65	66	67	68	63	68	68	64	70	72	74	77	78	79	79	78	76	76	76	74	71	69	64	55	48	88
296	6/7	50 cal Blank	60	T1580	7	55	55	52	52		64	58	49	68	67	67	70	61	67	66	62	69	70	73	77	76	78	78	77	76	75	76	73	71	69	65	56	48	87
296	6/7	50 cal Blank	60	T1581	2	56		68	67	72	73	75	75	78	82	87	92	100	87	82	80	75	79	83	81	91	83	85	80	76	70	70	73	73	75	72	64	63	53	105
296	6/7	50 cal Blank	60	T1581	7	64		71	71	72	74	76	78	82	87	92	101	103	87	82	80	76	78	81	80	90	82	86	81	75	71	71	71	71	69	69	61	60	51	35	106

Table D 5. Summary data for passive small caliber live fire noise on Fort Stewart, GA, 2000. RCW response 0 = no visible response, 1 = alert to cavity mouth, and 2 = flush from cavity.

Cluster	Date	Nesting Phase & Day	Event Type	Event Dist. (m)	RCW Resp.	Recovery time (min)	Remarks	Mic Pos.	File #	Spec. #	SEL (dB) at mic Flat	A
36	10-May-00	I-8	50 cal live	1000-2000	0			Base	T548	4	64.7	45.3
36	10-May-00	I-8	50 cal live	1000-2000	0			Base	T548	9	62.6	44.8
36	10-May-00	I-8	50 cal live	1000-2000	0			Base	T548	14	63.0	45.3
36	10-May-00	I-8	50 cal live	1000-2000	0			Base	T548	24	62.2	44.0
36	10-May-00	I-8	50 cal live	1000-2000	0			Base	T548	27	62.7	45.0
39	23-May-00		50 cal live	5000-6000				Base	T1354	3	69.2	56.9
39	23-May-00		50 cal live	5000-6000				Base	T1355	3	69.6	59.6
39	23-May-00		50 cal live	5000-6000				Base	T1356	2	74.5	63.0
39	23-May-00		50 cal live	5000-6000				Base	T1356	8	74.5	62.8
39	23-May-00		50 cal live	5000-6000				Base	T1356	17	75.3	63.5
39	23-May-00		50 cal live	5000-6000				Base	T1356	25	75.0	63.1
39	23-May-00		50 cal live	5000-6000				Base	T1357	3	70.4	60.2
39	23-May-00		50 cal live	5000-6000				Base	T1357	23	67.2	55.3
39	27-May-00		50 cal live	5000-6000				Base	T1256	14	58.1	45.3
39	27-May-00		50 cal live	5000-6000				Base	T1258	2	58.5	41.3
39	27-May-00		50 cal live	5000-6000				Base	T1258	13	60.5	46.0
39	27-May-00		50 cal live	5000-6000				Base	T1258	17	61.1	46.1
48	13-Apr-00	Pre-nesting	50 cal live	1700-2500					T479	5	69.7	57.1
48	13-Apr-00	Pre-nesting	50 cal live	1700-2500					T486	9	81.5	63.7
48	02-May-00	I-6	50 cal live	2000-2500	0			Base	T907	2	62.0	51.5
48	02-May-00	I-6	50 cal live	2000-2500	0			Base	T907	13	61.1	51.4
48	02-May-00	I-6	50 cal live	2000-2500	0			Base	T907	24	60.8	49.4
48	04-May-00	I-8	50 cal live	2000-2500	0			Base	T1247	3	72.5	60.9
48	04-May-00	I-8	50 cal live	2000-2500	0			Base	T1247	8	71.0	60.8
48	04-May-00	I-8	50 cal live	2000-2500	0			Base	T1247	10	65.8	55.2
48	04-May-00	I-8	50 cal live	2000-2500	0			Base	T1247	26	69.4	59.5
48	04-May-00	I-8	50 cal live	2000-2500	0			Base	T1248	11	78.0	66.9
51	18-May-00	I-9	M-16 live	700-1000	0			Base	T886	7	66.0	59.4
51	18-May-00	I-9	M-16 live	700-1000	0			Base	T888	17	72.0	56.4
71	24-May-00	N-17	50 cal live	1000-2000				Base	T10	11	67.2	40.4
71	24-May-00	N-17	50 cal live	1000-2000				Base	T10	16	75.3	52.5
71	24-May-00	N-17	50 cal live	1000-2000				Base	T10	24	69.9	50.3
99	23-May-00		50 cal live	4400-5000				Base	T1364	4	69.1	54.5
99	23-May-00		50 cal live	4400-5000				Base	T1365	3	71.6	56.8

99	28-May-00	N-22	50 cal live	4400-5000					Base	T504	5	71.9	54.7
99	28-May-00	N-22	50 cal live	4400-5000					Base	T504	9	68.6	50.0
99	28-May-00	N-22	50 cal live	4400-5000					Base	T504	14	72.2	56.0
103	03-May-00	I-6	M-16 live	200-430	2				Base	T600	6	89.3	89.8
103	03-May-00	I-6	M-16 live	200-430	2				Base	T600	17	86.1	86.6
103	03-May-00	I-6	M-16 live	200-430	2				Base	T600	27	78.1	74.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T601	4	86.4	86.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T601	18	77.2	70.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T602	7	86.7	87.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T602	16	82.6	82.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T602	26	85.8	86.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T603	4	85.9	86.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T603	17	86.4	86.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T603	30	86.6	86.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T604	5	85.9	86.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T604	8	75.4	68.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T604	14	74.2	65.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T604	25	88.7	88.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T605	5	78.4	71.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T605	16	79.0	71.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T605	25	77.6	72.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T605	28	76.1	74.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T606	4	84.9	84.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T606	17	78.8	70.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T606	30	79.4	70.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T607	8	82.0	76.4
103	03-May-00	I-6	M-16 live	200-430	0				Base	T607	23	81.3	73.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T608	11	88.6	88.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T608	24	80.4	74.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T609	6	79.2	73.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T609	8	68.7	60.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T609	15	72.1	61.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T609	19	74.1	66.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T609	22	72.2	64.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T610	7	81.1	76.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T610	10	72.7	64.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T610	14	72.4	62.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T610	24	81.3	74.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T611	8	88.3	88.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T611	21	79.8	72.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T612	9	77.0	70.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T612	13	76.2	69.9

103	03-May-00	I-6	M-16 live	200-430	0			Base	T612	22	85.2	85.4
103	03-May-00	I-6	M-16 live	200-430	0			Base	T613	3	74.1	69.8
103	03-May-00	I-6	M-16 live	200-430	0			Base	T613	12	80.5	80.2
103	03-May-00	I-6	M-16 live	200-430	0			Base	T613	19	71.2	70.9
103	03-May-00	I-6	M-16 live	200-430	0			Base	T614	9	86.8	87.6
103	03-May-00	I-6	M-16 live	200-430	0			Base	T614	17	70.1	67.1
103	03-May-00	I-6	M-16 live	200-430	0			Base	T615	4	81.5	80.5
103	03-May-00	I-6	M-16 live	200-430	0			Base	T615	16	77.4	70.7
103	03-May-00	I-6	M-16 live	200-430	0			Base	T615	26	84.3	84.2
103	03-May-00	I-6	M-16 live	200-430	0			Base	T616	6	77.4	70.1
103	03-May-00	I-6	M-16 live	200-430	0			Base	T616	19	78.1	71.0
103	03-May-00	I-6	M-16 live	200-430	0			Base	T617	8	79.6	72.9
103	03-May-00	I-6	M-16 live	200-430	0			Base	T617	17	87.4	87.9
103	03-May-00	I-6	M-16 live	200-430	0			Base	T617	29	79.4	72.6
103	03-May-00	I-6	M-16 live	200-430	0			Base	T618	5	77.9	71.7
103	03-May-00	I-6	M-16 live	200-430	0			Base	T618	17	78.7	71.5
103	03-May-00	I-6	M-16 live	200-430	0			Base	T619	9	83.0	78.7
103	03-May-00	I-6	M-16 live	200-430	0			Base	T619	22	80.6	73.7
103	03-May-00	I-6	M-16 live	200-430	0			Base	T620	10	84.5	81.9
103	03-May-00	I-6	M-16 live	200-430	0			Base	T620	23	80.7	73.2
103	03-May-00	I-6	M-16 live	200-430	0			Base	T621	3	80.4	78.4
103	03-May-00	I-6	M-16 live	200-430	0			Base	T621	17	84.1	83.0
103	03-May-00	I-6	M-16 live	200-430	0			Base	T622	5	86.0	85.6
103	03-May-00	I-6	M-16 live	200-430	0			Base	T622	18	79.4	71.7
103	03-May-00	I-6	M-16 live	200-430	0			Base	T623	6	79.4	71.0
103	03-May-00	I-6	M-16 live	200-430	0			Base	T623	21	86.7	85.7
103	03-May-00	I-6	M-16 live	200-430	0			Base	T624	9	83.0	77.2
103	03-May-00	I-6	M-16 live	200-430	0			Base	T624	27	83.1	78.7
103	03-May-00	I-6	M-16 live	200-430	0			Base	T625	8	89.1	89.4
103	03-May-00	I-6	M-16 live	200-430	0			Base	T625	20	90.0	90.4
103	03-May-00	I-6	M-16 live	200-430	0			Base	T626	8	79.0	70.8
103	03-May-00	I-6	M-16 live	200-430	0			Base	T626	26	82.8	75.0
103	03-May-00	I-6	M-16 live	200-430	0			Base	T627	9	80.9	73.9
103	03-May-00	I-6	M-16 live	200-430	0			Base	T627	25	81.1	76.2
103	03-May-00	I-6	M-16 live	200-430	0			Base	T628	11	84.1	83.4
103	03-May-00	I-6	M-16 live	200-430	0			Base	T629	2	69.2	60.7
103	03-May-00	I-6	M-16 live	200-430	0			Base	T629	7	70.8	67.4
103	03-May-00	I-6	M-16 live	200-430	0			Base	T629	11	71.7	70.9
103	03-May-00	I-6	M-16 live	200-430	0			Base	T629	22	74.8	72.5

103	03-May-00	I-6	M-16 live	200-430	0				Base	T630	3	70.8	67.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T630	12	73.2	69.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T630	21	81.1	81.4
103	03-May-00	I-6	M-16 live	200-430	0				Base	T631	3	71.0	64.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T631	15	76.3	72.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T631	22	75.0	69.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T632	2	70.7	63.4
103	03-May-00	I-6	M-16 live	200-430	0				Base	T632	10	71.5	66.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T632	14	70.5	66.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T633	3	83.7	84.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T633	26	74.6	65.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T634	5	87.3	87.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T634	16	78.2	69.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T634	26	83.8	83.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T635	5	78.7	70.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T635	17	77.2	68.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T635	21	86.4	87.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T636	6	85.7	86.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T636	17	78.8	74.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T636	29	78.1	69.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T637	6	78.9	70.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T637	16	77.6	69.4
103	03-May-00	I-6	M-16 live	200-430	0				Base	T637	30	84.3	83.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T638	2	79.7	78.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T638	17	81.2	73.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T639	9	82.1	77.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T639	21	77.9	70.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T640	5	78.5	69.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T640	17	91.6	92.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T641	5	88.2	88.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T641	16	77.0	69.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T642	6	78.4	70.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T642	20	84.9	84.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T643	3	76.6	67.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T643	9	79.0	70.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T643	27	82.3	77.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T644	7	92.1	92.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T644	24	79.1	70.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T645	3	75.6	66.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T645	5	70.5	61.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T645	24	88.5	88.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T646	9	80.9	74.7

103	03-May-00	I-6	M-16 live	200-430	0				Base	T646	26	80.6	75.4
103	03-May-00	I-6	M-16 live	200-430	0				Base	T647	9	83.5	82.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T648	1	71.5	61.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T648	10	70.1	59.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T648	18	71.3	60.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T649	2	70.9	61.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T649	11	70.0	61.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T649	21	73.5	64.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T650	4	73.9	65.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T650	11	69.6	59.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T650	14	71.9	61.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T650	22	71.4	62.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T651	5	82.3	78.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T651	18	79.8	71.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T651	26	81.7	79.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T652	4	79.9	71.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T652	19	80.5	72.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T653	7	79.6	71.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T653	16	87.1	87.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T653	28	80.0	72.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T654	7	79.9	71.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T654	19	84.0	82.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T655	9	84.8	81.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T655	26	86.4	83.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T656	10	87.9	87.4
103	03-May-00	I-6	M-16 live	200-430	0				Base	T656	22	81.6	75.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T657	6	80.9	73.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T657	18	82.8	79.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T658	6	79.4	74.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T658	19	80.3	72.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T659	6	80.5	72.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T659	20	83.0	78.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T660	10	86.0	84.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T660	13	73.1	63.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T660	28	90.4	90.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T661	6	83.5	82.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T661	9	72.9	65.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T661	22	80.2	70.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T661	25	69.4	59.1

103	03-May-00	I-6	M-16 live	200-430	0				Base	T662	7	79.7	73.4
103	03-May-00	I-6	M-16 live	200-430	0				Base	T662	24	86.4	86.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T663	10	82.5	76.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T663	12	70.1	61.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T663	26	79.7	70.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T664	10	83.1	79.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T665	7	89.7	90.3
103	03-May-00	I-6	M-16 live	200-430	0				Base	T665	15	87.6	87.9
103	03-May-00	I-6	M-16 live	200-430	0				Base	T665	24	89.1	89.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T666	6	91.6	92.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T666	13	90.8	91.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T666	16	75.6	74.4
103	03-May-00	I-6	M-16 live	200-430	0				Base	T666	24	86.4	86.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T667	5	77.4	73.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T667	10	72.1	63.8
103	03-May-00	I-6	M-16 live	200-430	0				Base	T667	13	73.4	65.6
103	03-May-00	I-6	M-16 live	200-430	0				Base	T667	20	73.8	67.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T667	23	82.1	82.4
103	03-May-00	I-6	M-16 live	200-430	0				Base	T668	4	77.6	75.1
103	03-May-00	I-6	M-16 live	200-430	0				Base	T668	11	71.6	62.4
103	03-May-00	I-6	M-16 live	200-430	0				Base	T669	4	82.8	82.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T669	11	81.6	82.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T669	20	84.4	85.2
103	03-May-00	I-6	M-16 live	200-430	0				Base	T669	22	69.1	62.0
103	03-May-00	I-6	M-16 live	200-430	0				Base	T669	28	85.0	85.7
103	03-May-00	I-6	M-16 live	200-430	0				Base	T670	2	79.4	79.5
103	03-May-00	I-6	M-16 live	200-430	0				Base	T670	13	81.3	81.8
103	05-May-00	I-8	M-16	200-430	0				Base	T99	3	81.7	81.9
103	05-May-00	I-8	M-16	200-430	0				Base	T99	13	74.3	65.2
103	05-May-00	I-8	M-16	200-430	0				Base	T99	24	74.0	65.3
103	05-May-00	I-8	M-16	200-430	0				Base	T100	3	74.1	65.2
103	05-May-00	I-8	M-16	200-430	0				Base	T100	15	71.0	61.8
103	05-May-00	I-8	M-16	200-430	0				Base	T100	27	70.7	62.6
103	05-May-00	I-8	M-16	200-430	0				Base	T100	29	71.5	62.6
103	05-May-00	I-8	M-16	200-430	0				Base	T101	3	79.0	78.3
103	05-May-00	I-8	M-16	200-430	0				Base	T101	11	71.7	59.2
103	05-May-00	I-8	M-16	200-430	0				Base	T101	13	72.2	62.9
103	05-May-00	I-8	M-16	200-430	0				Base	T101	24	71.1	60.8
103	05-May-00	I-8	M-16	200-430	0				Base	T101	26	72.0	63.3
103	05-May-00	I-8	M-16	200-430	0				Base	T102	4	75.0	68.2
103	05-May-00	I-8	M-16	200-430	0				Base	T102	15	75.1	68.5
103	05-May-00	I-8	M-16	200-430	0				Base	T102	18	70.8	60.8

103	05-May-00	I-8	M-16	200-430	0			Base	T103	2	75.0	66.2
103	05-May-00	I-8	M-16	200-430	0			Base	T103	5	75.7	65.5
103	05-May-00	I-8	M-16	200-430	0			Base	T103	17	82.2	82.2
103	05-May-00	I-8	M-16	200-430	0			Base	T103	21	71.2	62.2
103	05-May-00	I-8	M-16	200-430	0			Base	T104	1	70.2	62.1
103	05-May-00	I-8	M-16	200-430	0			Base	T104	3	71.8	62.6
103	05-May-00	I-8	M-16	200-430	0			Base	T104	13	73.5	66.1
103	05-May-00	I-8	M-16	200-430	0			Base	T105	4	71.7	61.7
103	05-May-00	I-8	M-16	200-430	0			Base	T105	8	68.9	57.1
103	05-May-00	I-8	M-16	200-430	0			Base	T105	11	68.1	55.9
103	05-May-00	I-8	M-16	200-430	0			Base	T105	15	69.0	59.2
103	05-May-00	I-8	M-16	200-430	0			Base	T105	18	70.2	59.3
103	05-May-00	I-8	M-16	200-430	0			Base	T105	23	68.4	56.5
103	05-May-00	I-8	M-16	200-430	0			Base	T106	24	74.5	67.6
103	05-May-00	I-8	M-16	200-430	0			Base	T107	2	74.5	66.7
103	05-May-00	I-8	M-16	200-430	0			Base	T107	15	74.1	67.3
103	05-May-00	I-8	M-16	200-430	0			Base	T108	2	73.9	65.9
103	05-May-00	I-8	M-16	200-430	0			Base	T108	6	74.8	67.6
103	05-May-00	I-8	M-16	200-430	0			Base	T108	17	75.5	68.2
103	05-May-00	I-8	M-16	200-430	0			Base	T108	20	75.2	68.2
103	05-May-00	I-8	M-16	200-430	0			Base	T108	25	72.2	64.8
103	05-May-00	I-8	M-16	200-430	0			Base	T109	3	71.6	66.9
103	05-May-00	I-8	M-16	200-430	0			Base	T109	8	78.0	76.5
103	05-May-00	I-8	M-16	200-430	0			Base	T109	18	76.8	76.2
103	05-May-00	I-8	M-16	200-430	0			Base	T109	24	79.1	74.6
103	05-May-00	I-8	M-16	200-430	0			Base	T110	3	69.3	59.4
103	05-May-00	I-8	M-16	200-430	0			Base	T110	7	76.8	70.2
103	05-May-00	I-8	M-16	200-430	0			Base	T110	16	67.6	56.6
103	05-May-00	I-8	M-16	200-430	0			Base	T110	18	66.9	57.2
103	05-May-00	I-8	M-16	200-430	0			Base	T111	3	74.5	68.3
103	05-May-00	I-8	M-16	200-430	0			Base	T111	7	67.0	58.8
103	05-May-00	I-8	M-16	200-430	0			Base	T111	10	67.3	57.2
103	05-May-00	I-8	M-16	200-430	0			Base	T111	13	79.0	77.5
103	05-May-00	I-8	M-16	200-430	0			Base	T111	17	75.0	67.4
103	05-May-00	I-8	M-16	200-430	0			Base	T112	3	76.0	69.1
103	05-May-00	I-8	M-16	200-430	0			Base	T112	5	71.6	65.5
103	05-May-00	I-8	M-16	200-430	0			Base	T112	7	72.8	65.0
103	05-May-00	I-8	M-16	200-430	0			Base	T112	19	75.8	70.6
103	05-May-00	I-8	M-16	200-430	0			Base	T113	4	72.1	64.3

103	05-May-00	I-8	M-16	200-430	0			Base	T113	8	76.2	72.3
103	05-May-00	I-8	M-16	200-430	0			Base	T114	2	69.7	62.9
103	05-May-00	I-8	M-16	200-430	0			Base	T114	12	72.5	70.2
103	05-May-00	I-8	M-16	200-430	0			Base	T114	19	70.5	62.5
103	05-May-00	I-8	M-16	200-430	0			Base	T114	26	71.3	65.3
103	05-May-00	I-8	M-16	200-430	0			Base	T115	3	69.7	62.5
103	05-May-00	I-8	M-16	200-430	0			Base	T115	12	70.3	62.1
103	05-May-00	I-8	M-16	200-430	0			Base	T115	21	72.3	68.9
103	05-May-00	I-8	M-16	200-430	0			Base	T116	3	72.6	70.3
103	05-May-00	I-8	M-16	200-430	0			Base	T116	10	72.9	71.5
103	05-May-00	I-8	M-16	200-430	0			Base	T116	19	70.2	63.7
103	05-May-00	I-8	M-16	200-430	0			Base	T117	2	76.8	76.9
103	05-May-00	I-8	M-16	200-430	0			Base	T117	12	71.0	66.6
103	05-May-00	I-8	M-16	200-430	0			Base	T117	20	70.7	66.1
103	05-May-00	I-8	M-16	200-430	0			Base	T118	3	72.5	70.0
103	05-May-00	I-8	M-16	200-430	0			Base	T118	11	74.1	72.8
103	05-May-00	I-8	M-16	200-430	0			Base	T118	21	75.5	74.4
103	05-May-00	I-8	M-16	200-430	0			Base	T119	3	73.0	67.0
103	05-May-00	I-8	M-16	200-430	0			Base	T119	13	74.3	67.8
103	05-May-00	I-8	M-16	200-430	0			Base	T119	17	67.2	55.0
103	05-May-00	I-8	M-16	200-430	0			Base	T119	19	70.4	59.4
103	05-May-00	I-8	M-16	200-430	0			Base	T119	22	67.9	55.8
103	05-May-00	I-8	M-16	200-430	0			Base	T119	27	66.4	57.8
103	05-May-00	I-8	M-16	200-430	0			Base	T120	4	74.1	70.7
103	05-May-00	I-8	M-16	200-430	0			Base	T121	3	66.1	56.9
103	05-May-00	I-8	M-16	200-430	0			Base	T121	13	69.6	59.6
103	05-May-00	I-8	M-16	200-430	0			Base	T121	18	66.9	56.5
103	05-May-00	I-8	M-16	200-430	0			Base	T121	25	68.0	56.2
103	05-May-00	I-8	M-16	200-430	0			Base	T121	27	67.3	55.9
103	05-May-00	I-8	M-16	200-430	0			Base	T122	2	66.5	55.1
103	05-May-00	I-8	M-16	200-430	0			Base	T122	5	68.8	58.2
103	05-May-00	I-8	M-16	200-430	0			Base	T123	2	67.6	58.7
103	05-May-00	I-8	M-16	200-430	0			Base	T123	9	68.9	59.7
103	05-May-00	I-8	M-16	200-430	0			Base	T123	14	69.0	59.0
103	05-May-00	I-8	M-16	200-430	0			Base	T123	19	68.3	56.3
103	05-May-00	I-8	M-16	200-430	0			Base	T123	22	70.8	59.9
103	05-May-00	I-8	M-16	200-430	0			Base	T123	24	67.9	56.0
103	05-May-00	I-8	M-16	200-430	0			Base	T124	1	66.3	57.2
103	05-May-00	I-8	M-16	200-430	0			Base	T125	2	71.2	63.0
103	05-May-00	I-8	M-16	200-430	0			Base	T125	14	72.6	63.0
103	05-May-00	I-8	M-16	200-430	0			Base	T125	18	69.1	59.1
103	05-May-00	I-8	M-16	200-430	0			Base	T125	20	68.1	57.9

103	05-May-00	I-8	M-16	200-430	0			Base	T125	24	69.6	59.6
103	05-May-00	I-8	M-16	200-430	0			Base	T126	7	83.9	82.0
103	05-May-00	I-8	M-16	200-430	0			Base	T126	12	71.9	69.0
103	05-May-00	I-8	M-16	200-430	0			Base	T126	19	80.5	77.0
103	05-May-00	I-8	M-16	200-430	0			Base	T126	23	70.8	63.0
103	05-May-00	I-8	M-16	200-430	0			Base	T126	28	70.2	63.3
103	05-May-00	I-8	M-16	200-430	0			Base	T127	5	84.0	83.7
103	05-May-00	I-8	M-16	200-430	0			Base	T127	15	81.3	79.9
103	05-May-00	I-8	M-16	200-430	0			Base	T127	17	69.4	63.2
103	05-May-00	I-8	M-16	200-430	0			Base	T127	27	79.9	79.0
103	05-May-00	I-8	M-16	200-430	0			Base	T128	4	80.6	78.4
103	05-May-00	I-8	M-16	200-430	0			Base	T128	14	82.4	81.6
103	05-May-00	I-8	M-16	200-430	0			Base	T128	26	82.6	81.2
103	05-May-00	I-8	M-16	200-430	0			Base	T128	28	73.1	70.8
103	05-May-00	I-8	M-16	200-430	0			Base	T129	4	82.2	79.9
103	05-May-00	I-8	M-16	200-430	0			Base	T129	15	80.3	78.3
103	05-May-00	I-8	M-16	200-430	0			Base	T130	8	84.0	81.8
103	05-May-00	I-8	M-16	200-430	0			Base	T130	18	79.5	76.6
103	05-May-00	I-8	M-16	200-430	0			Base	T130	24	81.0	76.8
103	05-May-00	I-8	M-16	200-430	0			Base	T131	0	80.4	79.0
103	05-May-00	I-8	M-16	200-430	0			Base	T131	8	81.8	80.3
103	05-May-00	I-8	M-16	200-430	0			Base	T131	11	70.1	62.2
103	05-May-00	I-8	M-16	200-430	0			Base	T131	19	77.8	72.5
103	05-May-00	I-8	M-16	200-430	0			Base	T132	4	77.5	72.7
103	05-May-00	I-8	M-16	200-430	0			Base	T132	9	70.8	67.4
103	05-May-00	I-8	M-16	200-430	0			Base	T132	17	82.2	79.6
103	05-May-00	I-8	M-16	200-430	0			Base	T133	6	69.5	59.7
103	05-May-00	I-8	M-16	200-430	0			Base	T133	9	67.0	56.0
103	05-May-00	I-8	M-16	200-430	0			Base	T133	12	64.9	53.7
103	05-May-00	I-8	M-16	200-430	0			Base	T133	14	66.2	54.5
103	05-May-00	I-8	M-16	200-430	0			Base	T133	19	70.8	59.8
103	05-May-00	I-8	M-16	200-430	0			Base	T133	28	67.4	56.7
103	05-May-00	I-8	M-16	200-430	0			Base	T134	1	68.4	56.3
103	05-May-00	I-8	M-16	200-430	0			Base	T135	5	79.3	75.7
103	05-May-00	I-8	M-16	200-430	0			Base	T135	16	77.3	71.8
103	05-May-00	I-8	M-16	200-430	0			Base	T135	19	70.2	65.2
103	05-May-00	I-8	M-16	200-430	0			Base	T136	3	78.2	76.4
103	05-May-00	I-8	M-16	200-430	0			Base	T136	7	74.6	69.7
103	05-May-00	I-8	M-16	200-430	0			Base	T136	20	80.6	74.9

103	05-May-00	I-8	M-16	200-430	0			Base	T137	3	76.4	71.6
103	05-May-00	I-8	M-16	200-430	0			Base	T137	7	77.0	72.0
103	05-May-00	I-8	M-16	200-430	0			Base	T137	11	75.2	75.1
103	05-May-00	I-8	M-16	200-430	0			Base	T137	24	82.4	80.4
103	05-May-00	I-8	M-16	200-430	0			Base	T138	6	79.0	74.4
103	05-May-00	I-8	M-16	200-430	0			Base	T138	18	76.6	69.9
103	05-May-00	I-8	M-16	200-430	0			Base	T138	21	75.6	68.3
103	05-May-00	I-8	M-16	200-430	0			Base	T139	2	69.0	59.0
103	05-May-00	I-8	M-16	200-430	0			Base	T139	6	74.3	68.2
103	05-May-00	I-8	M-16	200-430	0			Base	T139	20	82.7	81.2
103	05-May-00	I-8	M-16	200-430	0			Base	T139	23	74.7	70.1
103	05-May-00	I-8	M-16	200-430	0			Base	T140	2	76.5	68.8
103	05-May-00	I-8	M-16	200-430	0			Base	T140	7	75.9	68.2
103	05-May-00	I-8	M-16	200-430	0			Base	T140	11	68.8	59.9
103	05-May-00	I-8	M-16	200-430	0			Base	T140	20	74.9	65.9
103	05-May-00	I-8	M-16	200-430	0			Base	T140	23	74.5	65.7
103	05-May-00	I-8	M-16	200-430	0			Base	T141	7	79.6	76.7
103	05-May-00	I-8	M-16	200-430	0			Base	T142	2	66.0	52.7
103	05-May-00	I-8	M-16	200-430	0			Base	T142	4	67.4	56.0
103	05-May-00	I-8	M-16	200-430	0			Base	T142	9	66.6	53.6
103	05-May-00	I-8	M-16	200-430	0			Base	T142	16	67.4	55.5
103	05-May-00	I-8	M-16	200-430	0			Base	T142	18	64.4	53.6
103	05-May-00	I-8	M-16	200-430	0			Base	T143	2	67.5	55.4
103	05-May-00	I-8	M-16	200-430	0			Base	T143	6	66.6	53.8
103	05-May-00	I-8	M-16	200-430	0			Base	T143	9	69.9	57.9
103	05-May-00	I-8	M-16	200-430	0			Base	T144	5	76.9	71.5
103	05-May-00	I-8	M-16	200-430	0			Base	T144	13	76.6	72.6
103	05-May-00	I-8	M-16	200-430	0			Base	T144	20	77.2	75.9
103	05-May-00	I-8	M-16	200-430	0			Base	T144	25	71.8	68.6
103	05-May-00	I-8	M-16	200-430	0			Base	T145	4	77.7	76.8
103	05-May-00	I-8	M-16	200-430	0			Base	T145	13	76.0	72.4
103	05-May-00	I-8	M-16	200-430	0			Base	T145	16	73.1	71.5
103	05-May-00	I-8	M-16	200-430	0			Base	T145	23	77.7	74.5
103	05-May-00	I-8	M-16	200-430	0			Base	T146	3	75.2	72.1
103	05-May-00	I-8	M-16	200-430	0			Base	T146	12	81.4	81.5
103	05-May-00	I-8	M-16	200-430	0			Base	T146	21	74.5	69.9
103	05-May-00	I-8	M-16	200-430	0			Base	T147	4	73.3	70.9
103	05-May-00	I-8	M-16	200-430	0			Base	T147	13	81.5	81.0
103	05-May-00	I-8	M-16	200-430	0			Base	T147	22	78.2	75.2
103	05-May-00	I-8	M-16	200-430	0			Base	T148	2	72.2	66.1
103	05-May-00	I-8	M-16	200-430	0			Base	T148	10	72.9	68.4
103	05-May-00	I-8	M-16	200-430	0			Base	T148	19	71.5	62.7

103	05-May-00	I-8	M-16	200-430	0			Base	T148	29	75.7	74.3
103	05-May-00	I-8	M-16	200-430	0			Base	T149	3	75.8	74.0
103	05-May-00	I-8	M-16	200-430	0			Base	T149	11	71.0	62.7
103	05-May-00	I-8	M-16	200-430	0			Base	T149	22	77.8	77.8
103	05-May-00	I-8	M-16	200-430	0			Base	T150	2	70.1	57.0
103	05-May-00	I-8	M-16	200-430	0			Base	T150	4	66.2	54.8
103	05-May-00	I-8	M-16	200-430	0			Base	T150	7	66.1	52.9
103	05-May-00	I-8	M-16	200-430	0			Base	T150	9	65.2	52.7
103	05-May-00	I-8	M-16	200-430	0			Base	T150	12	66.7	55.1
103	05-May-00	I-8	M-16	200-430	0			Base	T150	16	66.0	53.3
103	05-May-00	I-8	M-16	200-430	0			Base	T150	20	67.3	56.2
103	05-May-00	I-8	M-16	200-430	0			Base	T151	1	67.7	57.3
103	05-May-00	I-8	M-16	200-430	0			Base	T151	4	67.1	55.1
103	05-May-00	I-8	M-16	200-430	0			Base	T151	10	69.9	60.0
103	05-May-00	I-8	M-16	200-430	0			Base	T152	4	71.4	59.0
103	05-May-00	I-8	M-16	200-430	0			Base	T152	8	67.2	54.8
103	05-May-00	I-8	M-16	200-430	0			Base	T152	10	66.7	53.6
103	05-May-00	I-8	M-16	200-430	0			Base	T152	13	69.5	57.0
103	05-May-00	I-8	M-16	200-430	0			Base	T152	16	69.7	57.1
103	05-May-00	I-8	M-16	200-430	0			Base	T152	20	65.3	53.1
103	05-May-00	I-8	M-16	200-430	0			Base	T153	2	66.9	55.3
103	05-May-00	I-8	M-16	200-430	0			Base	T154	2	65.6	53.6
103	05-May-00	I-8	M-16	200-430	0			Base	T154	10	66.5	54.3
103	05-May-00	I-8	M-16	200-430	0			Base	T154	23	68.3	52.6
103	05-May-00	I-8	M-16	200-430	0			Base	T155	2	70.4	58.1
103	05-May-00	I-8	M-16	200-430	0			Base	T155	12	68.5	58.0
103	05-May-00	I-8	M-16	200-430	0			Base	T155	16	66.5	54.4
103	05-May-00	I-8	M-16	200-430	0			Base	T155	21	68.3	57.0
103	05-May-00	I-8	M-16	200-430	0			Base	T155	25	70.1	60.1
103	05-May-00	I-8	M-16	200-430	0			Base	T156	2	65.3	54.4
103	05-May-00	I-8	M-16	200-430	0			Base	T157	3	82.9	82.7
103	05-May-00	I-8	M-16	200-430	0			Base	T157	15	75.8	70.9
103	05-May-00	I-8	M-16	200-430	0			Base	T157	25	75.6	71.3
103	05-May-00	I-8	M-16	200-430	0			Base	T158	3	74.3	67.6
103	05-May-00	I-8	M-16	200-430	0			Base	T158	15	70.9	61.0
103	05-May-00	I-8	M-16	200-430	0			Base	T158	19	70.1	67.3
103	05-May-00	I-8	M-16	200-430	0			Base	T158	30	73.6	65.0
103	06-May-00	I-9	M-16	200-430	0			Base	T160	3	74.4	74.9
103	06-May-00	I-9	M-16	200-430	0			Base	T160	10	86.2	87.1

103	06-May-00	I-9	M-16	200-430	0				Base	T160	16	73.5	73.8
103	06-May-00	I-9	M-16	200-430	0				Base	T160	26	86.1	86.9
103	06-May-00	I-9	M-16	200-430	0				Base	T161	6	73.7	73.9
103	06-May-00	I-9	M-16	200-430	0				Base	T161	18	74.9	75.3
103	06-May-00	I-9	M-16	200-430	0				Base	T162	3	72.3	72.7
103	06-May-00	I-9	M-16	200-430	0				Base	T162	6	68.6	68.9
103	06-May-00	I-9	M-16	200-430	0				Base	T162	16	84.0	84.8
103	06-May-00	I-9	M-16	200-430	0				Base	T162	27	75.1	75.7
103	06-May-00	I-9	M-16	200-430	0				Base	T163	5	75.3	75.8
103	06-May-00	I-9	M-16	200-430	0				Base	T163	14	70.3	70.7
103	06-May-00	I-9	M-16	200-430	0				Base	T163	17	70.5	71.0
103	06-May-00	I-9	M-16	200-430	0				Base	T164	8	87.3	88.1
103	06-May-00	I-9	M-16	200-430	0				Base	T164	18	82.6	83.4
103	06-May-00	I-9	M-16	200-430	0				Base	T164	25	75.1	75.5
103	06-May-00	I-9	M-16	200-430	0				Base	T165	9	88.4	89.1
103	06-May-00	I-9	M-16	200-430	0				Base	T165	21	74.5	74.8
103	06-May-00	I-9	M-16	200-430	0				Base	T166	4	73.2	73.5
103	06-May-00	I-9	M-16	200-430	0				Base	T166	16	79.5	80.2
103	06-May-00	I-9	M-16	200-430	0				Base	T167	3	77.4	78.2
103	06-May-00	I-9	M-16	200-430	0				Base	T167	17	74.4	75.1
103	06-May-00	I-9	M-16	200-430	0				Base	T167	30	78.5	79.3
103	06-May-00	I-9	M-16	200-430	0				Base	T168	4	77.0	77.7
103	06-May-00	I-9	M-16	200-430	0				Base	T168	9	70.6	71.2
103	06-May-00	I-9	M-16	200-430	0				Base	T168	25	74.8	75.0
103	06-May-00	I-9	M-16	200-430	0				Base	T168	27	64.9	65.4
103	06-May-00	I-9	M-16	200-430	0				Base	T169	7	78.1	78.8
103	06-May-00	I-9	M-16	200-430	0				Base	T169	16	74.1	74.7
103	06-May-00	I-9	M-16	200-430	0				Base	T170	4	72.7	73.2
103	06-May-00	I-9	M-16	200-430	0				Base	T170	8	65.6	66.3
103	06-May-00	I-9	M-16	200-430	0				Base	T170	18	67.5	68.0
103	06-May-00	I-9	M-16	200-430	0				Base	T171	7	82.1	82.9
103	06-May-00	I-9	M-16	200-430	0				Base	T171	9	67.6	68.0
103	06-May-00	I-9	M-16	200-430	0				Base	T171	18	69.0	69.3
103	06-May-00	I-9	M-16	200-430	0				Base	T171	22	69.6	69.6
103	06-May-00	I-9	M-16	200-430	0				Base	T171	25	64.8	65.3
103	06-May-00	I-9	M-16	200-430	0				Base	T171	27	64.6	65.1
103	06-May-00	I-9	M-16	200-430	0				Base	T172	6	79.0	79.5
103	06-May-00	I-9	M-16	200-430	0				Base	T172	9	67.4	67.8
103	06-May-00	I-9	M-16	200-430	0				Base	T172	21	86.2	86.9
103	06-May-00	I-9	M-16	200-430	0				Base	T172	24	72.1	72.7
103	06-May-00	I-9	M-16	200-430	0				Base	T173	4	80.6	81.4
103	06-May-00	I-9	M-16	200-430	0				Base	T173	16	82.2	82.9

103	06-May-00	I-9	M-16	200-430	0			Base	T173	25	86.1	87.0
103	06-May-00	I-9	M-16	200-430	0			Base	T174	4	74.4	74.9
103	06-May-00	I-9	M-16	200-430	0			Base	T174	17	72.4	72.7
103	06-May-00	I-9	M-16	200-430	0			Base	T175	4	73.0	73.2
103	06-May-00	I-9	M-16	200-430	0			Base	T175	6	64.9	65.0
103	06-May-00	I-9	M-16	200-430	0			Base	T175	16	86.5	87.3
103	06-May-00	I-9	M-16	200-430	0			Base	T175	28	77.5	78.1
103	06-May-00	I-9	M-16	200-430	0			Base	T176	6	73.8	74.1
103	06-May-00	I-9	M-16	200-430	0			Base	T176	19	74.9	75.2
103	06-May-00	I-9	M-16	200-430	0			Base	T177	8	87.6	88.4
103	06-May-00	I-9	M-16	200-430	0			Base	T177	17	72.0	72.5
103	06-May-00	I-9	M-16	200-430	0			Base	T177	23	74.9	75.3
103	06-May-00	I-9	M-16	200-430	0			Base	T178	9	84.9	85.7
103	06-May-00	I-9	M-16	200-430	0			Base	T178	21	80.1	81.0
103	06-May-00	I-9	M-16	200-430	0			Base	T179	5	79.2	79.7
103	06-May-00	I-9	M-16	200-430	0			Base	T179	18	88.9	89.7
103	06-May-00	I-9	M-16	200-430	0			Base	T180	5	84.3	85.0
103	06-May-00	I-9	M-16	200-430	0			Base	T180	17	69.9	70.2
103	06-May-00	I-9	M-16	200-430	0			Base	T180	19	74.4	75.2
103	06-May-00	I-9	M-16	200-430	0			Base	T181	5	73.9	74.5
103	06-May-00	I-9	M-16	200-430	0			Base	T181	18	91.6	92.4
103	06-May-00	I-9	M-16	200-430	0			Base	T182	7	79.0	76.7
103	06-May-00	I-9	M-16	200-430	0			Base	T182	10	68.4	69.0
103	06-May-00	I-9	M-16	200-430	0			Base	T182	21	75.5	76.1
103	06-May-00	I-9	M-16	200-430	0			Base	T182	26	73.5	73.9
103	06-May-00	I-9	M-16	200-430	0			Base	T183	3	82.9	83.7
103	06-May-00	I-9	M-16	200-430	0			Base	T183	6	81.6	82.5
103	06-May-00	I-9	M-16	200-430	0			Base	T183	19	70.2	70.3
103	06-May-00	I-9	M-16	200-430	0			Base	T184	4	75.0	75.6
103	06-May-00	I-9	M-16	200-430	0			Base	T184	6	83.7	84.5
103	06-May-00	I-9	M-16	200-430	0			Base	T184	22	82.6	83.3
103	06-May-00	I-9	M-16	200-430	0			Base	T185	5	78.6	79.4
103	06-May-00	I-9	M-16	200-430	0			Base	T185	8	82.6	83.4
103	06-May-00	I-9	M-16	200-430	0			Base	T185	24	77.3	77.9
103	06-May-00	I-9	M-16	200-430	0			Base	T186	4	82.2	82.8
103	06-May-00	I-9	M-16	200-430	0			Base	T186	8	77.8	75.4
103	06-May-00	I-9	M-16	200-430	0			Base	T187	4	72.6	73.1
103	06-May-00	I-9	M-16	200-430	0			Base	T187	15	72.6	72.8
103	06-May-00	I-9	M-16	200-430	0			Base	T187	17	66.3	66.9

103	06-May-00	I-9	M-16	200-430	0			Base	T187	27	90.7	91.5
103	06-May-00	I-9	M-16	200-430	0			Base	T188	7	75.1	75.7
103	06-May-00	I-9	M-16	200-430	0			Base	T188	18	83.1	83.7
103	06-May-00	I-9	M-16	200-430	0			Base	T188	21	67.1	67.1
103	06-May-00	I-9	M-16	200-430	0			Base	T189	6	70.4	70.6
103	06-May-00	I-9	M-16	200-430	0			Base	T189	18	86.4	87.3
103	06-May-00	I-9	M-16	200-430	0			Base	T189	27	71.7	72.1
103	06-May-00	I-9	M-16	200-430	0			Base	T190	5	69.6	69.6
103	06-May-00	I-9	M-16	200-430	0			Base	T190	16	76.8	77.6
103	06-May-00	I-9	M-16	200-430	0			Base	T190	18	65.2	65.5
103	06-May-00	I-9	M-16	200-430	0			Base	T191	6	79.4	80.1
103	06-May-00	I-9	M-16	200-430	0			Base	T191	19	74.8	75.5
103	06-May-00	I-9	M-16	200-430	0			Base	T191	24	70.4	71.3
103	06-May-00	I-9	M-16	200-430	0			Base	T192	5	75.5	76.1
103	06-May-00	I-9	M-16	200-430	0			Base	T192	8	81.8	82.6
103	06-May-00	I-9	M-16	200-430	0			Base	T192	20	70.6	70.7
103	06-May-00	I-9	M-16	200-430	0			Base	T193	6	74.0	74.5
103	06-May-00	I-9	M-16	200-430	0			Base	T193	18	93.1	93.9
103	06-May-00	I-9	M-16	200-430	0			Base	T194	6	83.0	83.8
103	06-May-00	I-9	M-16	200-430	0			Base	T194	20	79.6	80.3
103	06-May-00	I-9	M-16	200-430	0			Base	T195	7	85.5	86.3
103	06-May-00	I-9	M-16	200-430	0			Base	T195	21	90.6	91.4
103	06-May-00	I-9	M-16	200-430	0			Base	T196	5	78.8	79.4
103	06-May-00	I-9	M-16	200-430	0			Base	T196	13	79.0	79.5
103	06-May-00	I-9	M-16	200-430	0			Base	T196	27	81.6	82.2
103	06-May-00	I-9	M-16	200-430	0			Base	T197	9	89.4	90.0
103	06-May-00	I-9	M-16	200-430	0			Base	T197	22	76.6	77.1
103	06-May-00	I-9	M-16	200-430	0			Base	T198	12	82.4	83.2
103	06-May-00	I-9	M-16	200-430	0			Base	T198	24	83.1	83.9
103	06-May-00	I-9	M-16	200-430	0			Base	T198	27	74.8	75.5
103	06-May-00	I-9	M-16	200-430	0			Base	T199	3	89.5	90.3
103	06-May-00	I-9	M-16	200-430	0			Base	T199	13	82.9	83.8
103	06-May-00	I-9	M-16	200-430	0			Base	T199	25	84.5	85.3
103	06-May-00	I-9	M-16	200-430	0			Base	T200	6	86.5	87.4
103	06-May-00	I-9	M-16	200-430	0			Base	T200	10	81.4	82.2
103	06-May-00	I-9	M-16	200-430	0			Base	T200	20	67.9	68.4
103	06-May-00	I-9	M-16	200-430	0			Base	T201	4	85.2	86.1
103	06-May-00	I-9	M-16	200-430	0			Base	T201	15	84.0	84.8
103	06-May-00	I-9	M-16	200-430	0			Base	T201	27	85.2	86.0
103	06-May-00	I-9	M-16	200-430	0			Base	T202	6	76.3	76.6
103	06-May-00	I-9	M-16	200-430	0			Base	T202	19	77.5	78.0
103	06-May-00	I-9	M-16	200-430	0			Base	T203	8	80.2	80.9

103	06-May-00	I-9	M-16	200-430	0			Base	T203	17	83.2	83.9
103	06-May-00	I-9	M-16	200-430	0			Base	T204	6	81.4	82.3
103	06-May-00	I-9	M-16	200-430	0			Base	T204	20	77.4	77.9
103	06-May-00	I-9	M-16	200-430	0			Base	T205	8	84.7	85.5
103	06-May-00	I-9	M-16	200-430	0			Base	T205	20	90.9	91.7
103	06-May-00	I-9	M-16	200-430	0			Base	T206	9	77.2	77.7
103	06-May-00	I-9	M-16	200-430	0			Base	T206	25	84.4	85.1
103	06-May-00	I-9	M-16	200-430	0			Base	T207	5	72.6	72.1
103	06-May-00	I-9	M-16	200-430	0			Base	T207	19	77.7	78.2
103	06-May-00	I-9	M-16	200-430	0			Base	T208	6	76.4	77.0
103	06-May-00	I-9	M-16	200-430	0			Base	T209	6	82.4	83.2
103	06-May-00	I-9	M-16	200-430	0			Base	T209	20	78.7	79.2
103	06-May-00	I-9	M-16	200-430	0			Base	T210	6	78.6	79.3
103	06-May-00	I-9	M-16	200-430	0			Base	T210	16	80.6	81.3
103	06-May-00	I-9	M-16	200-430	0			Base	T206	17	70.8	71.1
103	06-May-00	I-9	M-16	200-430	0			Base	T211	4	73.0	73.3
103	06-May-00	I-9	M-16	200-430	0			Base	T211	8	73.8	74.4
103	06-May-00	I-9	M-16	200-430	0			Base	T211	13	73.5	74.1
103	06-May-00	I-9	M-16	200-430	0			Base	T211	22	81.1	82.0
103	06-May-00	I-9	M-16	200-430	0			Base	T211	27	78.1	78.8
103	06-May-00	I-9	M-16	200-430	0			Base	T212	4	82.6	83.5
103	06-May-00	I-9	M-16	200-430	0			Base	T212	6	73.3	74.0
103	06-May-00	I-9	M-16	200-430	0			Base	T212	20	77.4	78.1
103	06-May-00	I-9	M-16	200-430	0			Base	T213	4	68.4	68.8
103	06-May-00	I-9	M-16	200-430	0			Base	T213	7	68.9	69.0
103	06-May-00	I-9	M-16	200-430	0			Base	T213	18	68.6	68.9
103	06-May-00	I-9	M-16	200-430	0			Base	T213	21	81.0	81.7
103	06-May-00	I-9	M-16	200-430	0			Base	T213	24	69.3	69.6
103	06-May-00	I-9	M-16	200-430	0			Base	T214	6	79.8	80.5
103	06-May-00	I-9	M-16	200-430	0			Base	T214	23	90.6	91.5
103	06-May-00	I-9	M-16	200-430	0			Base	T214	25	81.0	81.8
103	06-May-00	I-9	M-16	200-430	0			Base	T215	4	73.5	74.3
103	06-May-00	I-9	M-16	200-430	0			Base	T215	9	71.3	71.4
103	06-May-00	I-9	M-16	200-430	0			Base	T216	4	89.8	90.3
103	06-May-00	I-9	M-16	200-430	0			Base	T216	13	68.7	68.9
103	06-May-00	I-9	M-16	200-430	0			Base	T216	15	65.8	66.2
103	06-May-00	I-9	M-16	200-430	0			Base	T216	26	72.0	71.8
103	06-May-00	I-9	M-16	200-430	0			Base	T217	2	66.1	66.5
103	06-May-00	I-9	M-16	200-430	0			Base	T218	5	82.3	83.0

103	06-May-00	I-9	M-16	200-430	0			Base	T218	17	71.8	71.8
103	06-May-00	I-9	M-16	200-430	0			Base	T218	26	80.0	80.9
103	06-May-00	I-9	M-16	200-430	0			Base	T219	5	74.1	74.4
103	06-May-00	I-9	M-16	200-430	0			Base	T219	15	69.3	69.5
103	06-May-00	I-9	M-16	200-430	0			Base	T219	18	68.6	68.6
103	06-May-00	I-9	M-16	200-430	0			Base	T220	7	76.3	77.0
103	06-May-00	I-9	M-16	200-430	0			Base	T220	18	87.0	87.7
103	06-May-00	I-9	M-16	200-430	0			Base	T220	29	72.6	72.6
103	06-May-00	I-9	M-16	200-430	0			Base	T221	6	74.5	74.8
103	06-May-00	I-9	M-16	200-430	0			Base	T221	17	73.3	73.5
103	06-May-00	I-9	M-16	200-430	0			Base	T222	4	80.8	81.5
103	06-May-00	I-9	M-16	200-430	0			Base	T222	8	90.3	91.0
103	06-May-00	I-9	M-16	200-430	0			Base	T222	19	75.6	76.2
103	06-May-00	I-9	M-16	200-430	0			Base	T222	23	66.7	66.9
103	06-May-00	I-9	M-16	200-430	0			Base	T223	4	88.1	88.9
103	06-May-00	I-9	M-16	200-430	0			Base	T223	9	75.5	76.1
103	06-May-00	I-9	M-16	200-430	0			Base	T223	22	72.1	72.1
103	06-May-00	I-9	M-16	200-430	0			Base	T224	4	74.0	74.4
103	06-May-00	I-9	M-16	200-430	0			Base	T224	17	84.8	85.6
103	06-May-00	I-9	M-16	200-430	0			Base	T225	5	82.3	83.1
103	06-May-00	I-9	M-16	200-430	0			Base	T225	17	74.2	74.5
103	06-May-00	I-9	M-16	200-430	0			Base	T225	19	65.5	65.7
103	06-May-00	I-9	M-16	200-430	0			Base	T225	30	80.1	80.7
103	06-May-00	I-9	M-16	200-430	0			Base	T226	10	82.3	83.0
103	06-May-00	I-9	M-16	200-430	0			Base	T226	23	81.2	81.8
103	06-May-00	I-9	M-16	200-430	0			Base	T226	28	76.7	77.4
103	06-May-00	I-9	M-16	200-430	0			Base	T227	9	87.0	87.8
103	06-May-00	I-9	M-16	200-430	0			Base	T227	22	89.8	90.6
103	06-May-00	I-9	M-16	200-430	0			Base	T228	5	83.4	84.1
103	06-May-00	I-9	M-16	200-430	0			Base	T228	22	79.2	80.0
103	06-May-00	I-9	M-16	200-430	0			Base	T229	8	83.1	83.7
103	06-May-00	I-9	M-16	200-430	0			Base	T229	11	83.5	84.4
103	06-May-00	I-9	M-16	200-430	0			Base	T229	26	80.1	80.6
103	06-May-00	I-9	M-16	200-430	0			Base	T229	28	65.9	66.1
103	06-May-00	I-9	M-16	200-430	0			Base	T230	4	77.4	54.5
103	06-May-00	I-9	M-16	200-430	0			Base	T231	4	80.4	81.2
103	06-May-00	I-9	M-16	200-430	0			Base	T231	15	82.3	83.0
103	06-May-00	I-9	M-16	200-430	0			Base	T231	25	83.6	84.4
103	06-May-00	I-9	M-16	200-430	0			Base	T232	5	79.9	80.7
103	06-May-00	I-9	M-16	200-430	0			Base	T232	20	81.4	82.1
103	06-May-00	I-9	M-16	200-430	0			Base	T233	7	83.0	83.7
103	06-May-00	I-9	M-16	200-430	0			Base	T233	16	82.5	83.3

103	06-May-00	I-9	M-16	200-430	0			Base	T233	20	70.0	68.8
103	06-May-00	I-9	M-16	200-430	0			Base	T233	29	78.0	78.6
103	06-May-00	I-9	M-16	200-430	0			Base	T234	4	73.2	73.8
103	06-May-00	I-9	M-16	200-430	0			Base	T234	14	72.0	72.7
103	06-May-00	I-9	M-16	200-430	0			Base	T234	16	72.9	73.8
103	06-May-00	I-9	M-16	200-430	0			Base	T235	3	80.9	81.8
103	06-May-00	I-9	M-16	200-430	0			Base	T235	8	77.6	78.4
103	06-May-00	I-9	M-16	200-430	0			Base	T235	17	72.1	72.6
103	06-May-00	I-9	M-16	200-430	0			Base	T235	21	72.7	73.5
103	06-May-00	I-9	M-16	200-430	0			Base	T235	24	72.4	73.0
103	06-May-00	I-9	M-16	200-430	0			Base	T236	6	84.1	84.8
103	06-May-00	I-9	M-16	200-430	0			Base	T236	9	78.2	78.8
103	06-May-00	I-9	M-16	200-430	0			Base	T236	18	70.0	70.8
103	06-May-00	I-9	M-16	200-430	0			Base	T236	21	70.4	71.4
103	06-May-00	I-9	M-16	200-430	0			Base	T237	2	64.3	64.8
103	06-May-00	I-9	M-16	200-430	0			Base	T237	16	75.6	76.3
103	06-May-00	I-9	M-16	200-430	0			Base	T237	26	65.4	66.1
103	06-May-00	I-9	M-16	200-430	0			Base	T238	2	69.6	70.2
103	06-May-00	I-9	M-16	200-430	0			Base	T238	15	65.2	65.4
103	06-May-00	I-9	M-16	200-430	0			Base	T239	2	71.7	72.4
103	06-May-00	I-9	M-16	200-430	0			Base	T239	7	68.1	67.1
103	06-May-00	I-9	M-16	200-430	0			Base	T239	16	66.2	66.0
103	06-May-00	I-9	M-16	200-430	0			Base	T239	20	71.2	71.8
103	06-May-00	I-9	M-16	200-430	0			Base	T239	25	81.3	82.0
103	06-May-00	I-9	M-16	200-430	0			Base	T240	2	75.5	76.3
103	06-May-00	I-9	M-16	200-430	0			Base	T240	6	66.1	66.7
103	06-May-00	I-9	M-16	200-430	0			Base	T240	16	66.8	67.4
103	06-May-00	I-9	M-16	200-430	0			Base	T241	22	71.5	72.0
103	06-May-00	I-9	M-16	200-430	0			Base	T242	5	70.9	71.4
103	06-May-00	I-9	M-16	200-430	0			Base	T242	10	67.0	67.7
103	06-May-00	I-9	M-16	200-430	0			Base	T242	22	74.0	74.9
103	06-May-00	I-9	M-16	200-430	0			Base	T243	1	64.0	64.5
103	06-May-00	I-9	M-16	200-430	0			Base	T243	3	70.6	71.5
103	06-May-00	I-9	M-16	200-430	0			Base	T243	6	65.7	66.5
103	06-May-00	I-9	M-16	200-430	0			Base	T244	3	64.2	64.6
103	06-May-00	I-9	M-16	200-430	0			Base	T244	13	72.5	73.5
103	06-May-00	I-9	M-16	200-430	0			Base	T244	25	71.2	71.9
103	06-May-00	I-9	M-16	200-430	0			Base	T246	2	64.9	65.3
103	06-May-00	I-9	M-16	200-430	0			Base	T246	11	61.4	60.9

103	06-May-00	I-9	M-16	200-430	0				Base	T246	15	61.8	61.7
103	06-May-00	I-9	M-16	200-430	0				Base	T247	13	64.4	65.0
103	06-May-00	I-9	M-16	200-430	0				Base	T247	26	66.6	67.0
103	06-May-00	I-9	M-16	200-430	0				Base	T248	3	66.3	66.7
103	06-May-00	I-9	M-16	200-430	0				Base	T248	11	68.7	69.1
103	06-May-00	I-9	M-16	200-430	0				Base	T248	18	66.9	66.3
103	06-May-00	I-9	M-16	200-430	0				Base	T249	4	72.3	72.8
103	06-May-00	I-9	M-16	200-430	0				Base	T249	7	64.6	64.1
103	06-May-00	I-9	M-16	200-430	0				Base	T249	20	66.6	65.8
103	06-May-00	I-9	M-16	200-430	0				Base	T250	4	68.1	68.7
103	06-May-00	I-9	M-16	200-430	0				Base	T250	14	81.7	82.2
103	06-May-00	I-9	M-16	200-430	0				Base	T250	16	64.2	64.6
103	06-May-00	I-9	M-16	200-430	0				Base	T250	27	74.7	75.6
103	06-May-00	I-9	M-16	200-430	0				Base	T251	6	72.6	73.4
103	06-May-00	I-9	M-16	200-430	0				Base	T252	5	65.7	65.8
103	06-May-00	I-9	M-16	200-430	0				Base	T252	8	60.0	59.9
103	06-May-00	I-9	M-16	200-430	0				Base	T252	16	59.6	59.3
103	06-May-00	I-9	M-16	200-430	0				Base	T252	18	59.7	59.7
103	06-May-00	I-9	M-16	200-430	0				Base	T253	6	66.1	66.3
103	06-May-00	I-9	M-16	200-430	0				Base	T253	19	65.4	65.8
103	06-May-00	I-9	M-16	200-430	0				Base	T254	3	57.4	56.9
103	06-May-00	I-9	M-16	200-430	0				Base	T254	8	55.7	53.1
103	06-May-00	I-9	M-16	200-430	0				Base	T254	17	57.3	57.7
103	06-May-00	I-9	M-16	200-430	0				Base	T254	19	57.6	57.8
103	06-May-00	I-9	M-16	200-430	0				Base	T254	21	58.0	58.1
103	06-May-00	I-9	M-16	200-430	0				Base	T254	24	58.1	57.6
103	06-May-00	I-9	M-16	200-430	0				Base	T255	4	65.6	66.2
103	06-May-00	I-9	M-16	200-430	0				Base	T255	11	60.0	59.5
103	06-May-00	I-9	M-16	200-430	0				Base	T255	20	56.0	55.2
103	06-May-00	I-9	M-16	200-430	0				Base	T256	8	82.9	83.8
103	06-May-00	I-9	M-16	200-430	0				Base	T256	23	94.0	94.8
103	06-May-00	I-9	M-16	200-430	0				Base	T257	4	83.1	83.9
103	06-May-00	I-9	M-16	200-430	0				Base	T257	7	75.5	76.5
103	06-May-00	I-9	M-16	200-430	0				Base	T257	12	86.8	87.8
103	06-May-00	I-9	M-16	200-430	0				Base	T257	17	82.9	83.8
103	06-May-00	I-9	M-16	200-430	0				Base	T257	29	96.4	97.1
103	06-May-00	I-9	M-16	200-430	0				Base	T258	9	91.6	92.3
103	06-May-00	I-9	M-16	200-430	0				Base	T258	18	89.4	90.3
103	06-May-00	I-9	M-16	200-430	0				Base	T259	8	91.6	92.3
103	06-May-00	I-9	M-16	200-430	0				Base	T259	18	89.4	90.3
103	06-May-00	I-9	M-16	200-430	0				Base	T260	6	74.8	75.4
103	06-May-00	I-9	M-16	200-430	0				Base	T261	2	81.4	82.3

103	06-May-00	I-9	M-16	200-430	0			Base	T261	9	83.2	84.2
103	06-May-00	I-9	M-16	200-430	0			Base	T261	20	73.9	74.4
103	06-May-00	I-9	M-16	200-430	0			Base	T261	24	74.2	75.0
103	06-May-00	I-9	M-16	200-430	0			Base	T262	4	65.6	65.9
103	06-May-00	I-9	M-16	200-430	0			Base	T262	7	62.8	63.2
103	06-May-00	I-9	M-16	200-430	0			Base	T263	3	67.8	68.6
103	06-May-00	I-9	M-16	200-430	0			Base	T263	6	71.8	72.8
103	06-May-00	I-9	M-16	200-430	0			Base	T263	15	65.1	65.6
103	06-May-00	I-9	M-16	200-430	0			Base	T264	3	65.3	65.4
103	06-May-00	I-9	M-16	200-430	0			Base	T264	7	69.0	69.4
103	06-May-00	I-9	M-16	200-430	0			Base	T264	9	64.9	64.6
103	06-May-00	I-9	M-16	200-430	0			Base	T264	16	72.0	72.6
103	06-May-00	I-9	M-16	200-430	0			Base	T265	7	65.2	65.1
103	06-May-00	I-9	M-16	200-430	0			Base	T265	10	63.0	62.3
103	06-May-00	I-9	M-16	200-430	0			Base	T265	15	63.2	62.5
103	06-May-00	I-9	M-16	200-430	0			Base	T266	9	57.8	58.1
103	06-May-00	I-9	M-16	200-430	0			Base	T266	14	61.8	61.9
103	06-May-00	I-9	M-16	200-430	0			Base	T267	6	79.9	80.7
103	06-May-00	I-9	M-16	200-430	0			Base	T267	8	73.0	73.8
103	06-May-00	I-9	M-16	200-430	0			Base	T267	15	91.9	92.6
103	06-May-00	I-9	M-16	200-430	0			Base	T267	20	88.5	89.2
103	06-May-00	I-9	M-16	200-430	0			Base	T267	30	95.3	92.2
103	06-May-00	I-9	M-16	200-430	0			Base	T268	3	75.8	76.4
103	06-May-00	I-9	M-16	200-430	0			Base	T268	8	75.8	76.0
103	06-May-00	I-9	M-16	200-430	0			Base	T268	13	74.3	74.4
103	06-May-00	I-9	M-16	200-430	0			Base	T268	18	72.1	72.0
103	06-May-00	I-9	M-16	200-430	0			Base	T268	23	84.6	85.5
103	06-May-00	I-9	M-16	200-430	0			Base	T268	30	84.1	84.9
103	06-May-00	I-9	M-16	200-430	0			Base	T269	7	86.6	87.4
103	06-May-00	I-9	M-16	200-430	0			Base	T269	11	82.4	83.3
103	06-May-00	I-9	M-16	200-430	0			Base	T269	15	85.5	86.5
103	06-May-00	I-9	M-16	200-430	0			Base	T269	22	79.5	80.3
103	06-May-00	I-9	M-16	200-430	0			Base	T269	30	76.0	76.9
103	06-May-00	I-9	M-16	200-430	0			Base	T270	3	77.1	77.9
103	06-May-00	I-9	M-16	200-430	0			Base	T270	7	68.1	68.6
103	06-May-00	I-9	M-16	200-430	0			Base	T270	10	68.8	68.9
103	06-May-00	I-9	M-16	200-430	0			Base	T270	13	76.1	77.0
103	06-May-00	I-9	M-16	200-430	0			Base	T270	18	73.5	74.0
103	06-May-00	I-9	M-16	200-430	0			Base	T270	21	71.8	72.5

103	06-May-00	I-9	M-16	200-430	0				Base	T271	6	82.7	83.5
103	06-May-00	I-9	M-16	200-430	0				Base	T271	16	78.7	79.1
103	06-May-00	I-9	M-16	200-430	0				Base	T271	30	89.8	90.7
103	06-May-00	I-9	M-16	200-430	0				Base	T272	5	86.2	87.1
103	06-May-00	I-9	M-16	200-430	0				Base	T272	13	89.4	90.3
103	06-May-00	I-9	M-16	200-430	0				Base	T273	15	87.7	88.5
103	06-May-00	I-9	M-16	200-430	0				Base	T273	22	89.6	90.4
103	06-May-00	I-9	M-16	200-430	0				Base	T273	28	88.4	89.4
103	06-May-00	I-9	M-16	200-430	0				Base	T274	1	73.0	73.7
103	06-May-00	I-9	M-16	200-430	0				Base	T274	12	86.7	87.6
103	06-May-00	I-9	M-16	200-430	0				Base	T274	22	74.0	74.4
103	06-May-00	I-9	M-16	200-430	0				Base	T274	30	77.5	78.1
103	06-May-00	I-9	M-16	200-430	0				Base	T275	2	72.8	73.4
103	06-May-00	I-9	M-16	200-430	0				Base	T275	4	82.5	83.3
103	06-May-00	I-9	M-16	200-430	0				Base	T275	13	85.2	86.1
103	06-May-00	I-9	M-16	200-430	0				Base	T275	15	83.4	84.0
103	06-May-00	I-9	M-16	200-430	0				Base	T275	18	70.0	70.6
103	06-May-00	I-9	M-16	200-430	0				Base	T275	28	77.4	77.8
103	06-May-00	I-9	M-16	200-430	0				Base	T275	30	64.2	64.0
103	06-May-00	I-9	M-16	200-430	0				Base	T276	4	74.6	75.0
103	06-May-00	I-9	M-16	200-430	0				Base	T276	7	74.9	75.6
103	06-May-00	I-9	M-16	200-430	0				Base	T276	11	76.3	76.8
103	06-May-00	I-9	M-16	200-430	0				Base	T276	18	82.9	83.8
103	06-May-00	I-9	M-16	200-430	0				Base	T276	23	81.2	82.2
103	06-May-00	I-9	M-16	200-430	0				Base	T276	25	80.6	81.6
103	06-May-00	I-9	M-16	200-430	0				Base	T276	27	83.9	84.9
103	06-May-00	I-9	M-16	200-430	0				Base	T276	29	83.2	83.9
103	06-May-00	I-9	M-16	200-430	0				Base	T277	19	85.9	86.8
103	06-May-00	I-9	M-16	200-430	0				Base	T277	30	86.8	87.6
103	06-May-00	I-9	M-16	200-430	0				Base	T278	7	87.4	88.2
103	06-May-00	I-9	M-16	200-430	0				Base	T278	16	84.9	85.8
103	06-May-00	I-9	M-16	200-430	0				Base	T278	20	81.6	82.5
103	06-May-00	I-9	M-16	200-430	0				Base	T278	27	81.2	81.9
103	06-May-00	I-9	M-16	200-430	0				Base	T278	29	81.3	82.1
103	06-May-00	I-9	M-16	200-430	0				Base	T279	6	79.4	80.2
103	06-May-00	I-9	M-16	200-430	0				Base	T279	30	88.0	88.7
103	06-May-00	I-9	M-16	200-430	0				Base	T280	3	77.7	78.4
103	06-May-00	I-9	M-16	200-430	0				Base	T280	11	87.3	88.1
103	06-May-00	I-9	M-16	200-430	0				Base	T280	21	83.1	83.8
103	06-May-00	I-9	M-16	200-430	0				Base	T280	30	82.3	82.9
103	06-May-00	I-9	M-16	200-430	0				Base	T281	6	83.1	83.8
103	06-May-00	I-9	M-16	200-430	0				Base	T281	13	78.3	78.8

103	06-May-00	I-9	M-16	200-430	0			Base	T281	19	81.1	81.8
103	06-May-00	I-9	M-16	200-430	0			Base	T281	25	87.6	88.5
103	06-May-00	I-9	M-16	200-430	0			Base	T281	30	72.6	73.3
103	06-May-00	I-9	M-16	200-430	0			Base	T282	2	74.5	75.1
103	06-May-00	I-9	M-16	200-430	0			Base	T282	5	70.9	71.3
103	06-May-00	I-9	M-16	200-430	0			Base	T282	12	83.4	84.3
103	06-May-00	I-9	M-16	200-430	0			Base	T282	16	69.4	69.8
103	06-May-00	I-9	M-16	200-430	0			Base	T282	19	73.5	74.0
103	06-May-00	I-9	M-16	200-430	0			Base	T282	25	87.5	88.3
103	06-May-00	I-9	M-16	200-430	0			Base	T282	30	76.3	77.1
103	06-May-00	I-9	M-16	200-430	0			Base	T283	5	81.6	82.4
103	06-May-00	I-9	M-16	200-430	0			Base	T283	13	83.8	84.4
103	06-May-00	I-9	M-16	200-430	0			Base	T283	27	84.4	85.1
103	06-May-00	I-9	M-16	200-430	0			Base	T284	4	75.9	76.6
103	06-May-00	I-9	M-16	200-430	0			Base	T284	9	80.0	80.8
103	06-May-00	I-9	M-16	200-430	0			Base	T284	15	84.5	85.4
103	06-May-00	I-9	M-16	200-430	0			Base	T284	21	74.1	74.4
103	06-May-00	I-9	M-16	200-430	0			Base	T284	26	76.5	77.3
103	06-May-00	I-9	M-16	200-430	0			Base	T284	28	68.3	69.1
103	06-May-00	I-9	M-16	200-430	0			Base	T285	8	85.5	86.2
103	06-May-00	I-9	M-16	200-430	0			Base	T285	13	65.6	66.0
103	06-May-00	I-9	M-16	200-430	0			Base	T285	16	69.4	69.9
103	06-May-00	I-9	M-16	200-430	0			Base	T285	20	77.5	78.3
103	06-May-00	I-9	M-16	200-430	0			Base	T285	24	70.5	70.9
103	06-May-00	I-9	M-16	200-430	0			Base	T286	2	67.7	68.2
103	06-May-00	I-9	M-16	200-430	0			Base	T286	6	69.8	70.0
103	06-May-00	I-9	M-16	200-430	0			Base	T286	10	75.6	76.5
103	06-May-00	I-9	M-16	200-430	0			Base	T286	12	65.8	66.1
103	06-May-00	I-9	M-16	200-430	0			Base	T286	14	64.1	64.3
103	06-May-00	I-9	M-16	200-430	0			Base	T286	16	66.8	67.4
103	06-May-00	I-9	M-16	200-430	0			Base	T286	19	70.8	71.7
103	06-May-00	I-9	M-16	200-430	0			Base	T286	21	65.9	66.4
103	06-May-00	I-9	M-16	200-430	0			Base	T286	23	63.5	63.9
103	06-May-00	I-9	M-16	200-430	0			Base	T286	29	77.5	78.3
103	06-May-00	I-9	M-16	200-430	0			Base	T287	3	71.2	71.8
103	06-May-00	I-9	M-16	200-430	0			Base	T287	6	73.2	74.2
103	06-May-00	I-9	M-16	200-430	0			Base	T287	20	83.0	83.6
103	06-May-00	I-9	M-16	200-430	0			Base	T288	3	86.1	87.0
103	06-May-00	I-9	M-16	200-430	0			Base	T288	7	69.7	70.3

103	06-May-00	I-9	M-16	200-430	0			Base	T288	18	65.4	65.6
103	06-May-00	I-9	M-16	200-430	0			Base	T289	3	63.2	63.1
103	06-May-00	I-9	M-16	200-430	0			Base	T289	6	62.8	63.0
103	06-May-00	I-9	M-16	200-430	0			Base	T289	16	66.7	67.0
103	06-May-00	I-9	M-16	200-430	0			Base	T289	19	62.2	62.4
103	06-May-00	I-9	M-16	200-430	0			Base	T289	29	64.5	64.4
103	06-May-00	I-9	M-16	200-430	0			Base	T290	2	62.6	62.4
103	06-May-00	I-9	M-16	200-430	0			Base	T290	4	61.2	60.9
103	06-May-00	I-9	M-16	200-430	0			Base	T290	12	73.5	74.2
103	06-May-00	I-9	M-16	200-430	0			Base	T291	5	62.7	62.5
103	06-May-00	I-9	M-16	200-430	0			Base	T291	19	66.7	66.4
103	06-May-00	I-9	M-16	200-430	0			Base	T291	29	66.1	65.8
103	06-May-00	I-9	M-16	200-430	0			Base	T292	5	66.9	67.1
103	06-May-00	I-9	M-16	200-430	0			Base	T292	7	61.3	61.4
103	06-May-00	I-9	M-16	200-430	0			Base	T292	9	60.4	60.4
103	06-May-00	I-9	M-16	200-430	0			Base	T292	26	68.9	68.5
103	06-May-00	I-9	M-16	200-430	0			Base	T293	15	92.3	89.4
152	08-Jun-00	N	50 cal live	1000-2000				Base	T964	2	67.9	46.7
152	08-Jun-00	N	50 cal live	1000-2000				Base	T964	6	65.8	44.3
152	08-Jun-00	N	50 cal live	1000-2000				Base	T964	9	63.4	41.6
159	20-Apr-00	I-1	50 cal live	4000-5000	0			Base	T685	2	59.2	48.7
159	20-Apr-00	I-1	50 cal live	4000-5000	0			Base	T685	7	56.6	45.1
159	20-Apr-00	I-1	50 cal live	4000-5000	0			Base	T685	17	66.4	55.4
207	05-May-00	I-8	50 cal live	5000-6000	0			Base	T1146	10	58.9	49.5
267	04-Jun-00	N-1	50 cal live	2400-4000	0			Base	T1203	6	76.2	60.7

Table D 6. Representative unweighted noise spectra for passive small-caliber fire on Fort Stewart, GA, 2000.

CL	Date	Type	Dist. (m)	File #	Spec #	10	13	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Overall SEL
36	5/10	50 cal live	5000-6000	T548	4	37	39	42	42	39	49	48	50	54	63	54	51	47	40	43	39	33	34	33	30	29	28	21	26	30	13	21	21	20	18	11	6	4		65
36	5/10	50 cal live	5000-6000	T548	9	32	36	36	34	41	50	47	52	55	55	57	52	51	46	43	38	32	33	32	29	27	26	19	23	23	12	18	16		11	10				63
36	5/10	50 cal live	5000-6000	T548	14	36	34	37	41	46	45	48	54	57	56	55	54	50	44	44	38	34	35	34	33	30	29	23	25	27	17	22	19		17	8		7		63
36	5/10	50 cal live	5000-6000	T548	24	36	36	44	39	43	47	49	52	55	56	55	52	46	45	40	37	33	33	32	30	29	27	19	23	23	24	27	20		16	6				62
36	5/10	50 cal live	5000-6000	T548	27	36	37	43	40	43	51	48	51	55	58	55	50	48	44	43	39	35	36	36	34	32	30	25	25	25	20	23	21	12	15	11				63
39	5/23	50 cal live	5000-6000	T1354	3		41	54	47	57	56	54	52	54	57	61	63	61	58	50	52	54	51	48	44	42	41	34	37	35	26	39	34	32	26	12		20		69
39	5/23	50 cal live	5000-6000	T1355	3	57	51	57	50	52	54	55	51	58	58	63	60	59	57	53	54	59	55	52	51	47	43	41	38	38	28	33	30	28	24	12		20		70
39	5/23	50 cal live	5000-6000	T1356	2	40	37	54	48	52	55	55	62	60	66	69	66	66	60	55	61	61	57	56	53	48	46	39	38	37	22	33	33	31	28	25				74
39	5/23	50 cal live	5000-6000	T1356	8	44	43	54	48	51	57	56	62	61	62	67	67	67	65	57	62	61	54	52	47	46	42	36	37	36	20	34	31	32	22	21		18		74
39	5/23	50 cal live	5000-6000	T1356	17	41	45	50	47	50	58	57	64	62	65	65	69	69	66	57	61	63	53	51	46	43	41	36	34	35	30	29	30	32	25	19		12		75
39	5/23	50 cal live	5000-6000	T1356	25	42	47	52	49	51	56	58	55	64	66	67	67	68	66	58	60	63	53	51	47	44	42	36	36	37	22	32	31	28	24	17		18		75
39	5/23	50 cal live	5000-6000	T1357	3		34	55	57	54	47	53	58	59	59	59	66	61	58	52	53	56	55	53	52	48	44	39	37	38		41	44	31	44	47	33	24		70
39	5/23	50 cal live	5000-6000	T1357	23	41	42	51	49	55	54	52	51	55	56	58	60	57	57	50	47	51	49	48	45	43	40	29	36	35		39	40	32	32	32				67
39	5/27	50 cal live	5000-6000	T1256	14	31	37	36	37	42	35	41	47	48	53	46	50	46	45	43	44	44	39	33	27	28	28	14	26	23	1	24	25	21	30	20				58
39	5/27	50 cal live	5000-6000	T1258	2	31	33	36	38	41	43	42	47	53	50	52	46	45	41	37	36	35	35	29	21	24	25	15	22	21		23	22	17	27	13				58
39	5/27	50 cal live	5000-6000	T1258	13	39	35	36	35	41	43	44	47	53	52	55	51	50	42	43	43	43	41	35	30	27	25	16	23	24	13	22	23		25	10		1		60
39	5/27	50 cal live	5000-6000	T1258	17	27	33	37	40	40	45	45	51	53	53	55	49	50	45	43	42	43	42	35	28	27	26	16	24	26	16	23	20		14	13		10		61
48	4/13	50 cal live	1700-2500	T479	5	48	53	56	61	61	62	57	53	59	59	57	59	57	54	52	50	50	52	52	50	47	43	37	34	32	9	28	26		20	11		9	5	70
48	4/13	50 cal live	1700-2500	T486	9	52	65	68	69	77	69	69	68	70	72	72	69	64	62	60	59	58	58	57	54	51	48	44	41	39	32	34	32	32	24	21	11	17		82
48	5/2	50 cal live	1700-2500	T907	2	40	34			40	46	41	44	47	52	56	57	53	48	47	44	40	42	44	43	41	41	34	35	36		34	38	32	24	16				62
48	5/2	50 cal live	1700-2500	T907	13		43	34		34	43	34	28	52	52	52	52	52	54	53	42	34	37	43	39	40	41	35	30	35		35	39	30	27	19				61
48	5/2	50 cal live	1700-2500	T907	24		49	40	40	43	44	0	48	50	55	55	55	48	48	49	42	37	41	41	30	38	38	29	33	31		35	39	35	25			22		61
48	5/4	50 cal live	1700-2500	T1247	3	42	45	57	58	50	52	54	60	58	61	66	66	64	60	58	54	56	55	54	52	50	47	43	37	33	27	28	27	15	23	19	2	13		72
48	5/4	50 cal live	1700-2500	T1247	8	36	41	55	52	48	52	56	61	58	60	62	62	63	57	57	54	54	54	54	54	52	48	42	38	32	27	25	25	16	21	17		10		71

(Band SEL (dB) at 1/3 Octave Spectrum Center Frequencies (Hz); all Type = "50 cal live".)

48	5/4	50 cal live	1700-2500	T1247	10	36	41	51	47	46	50	48	56	56	56	60	54	56	52	51	49	48	50	50	47	46	41	35	32	27	20	21	20	16	16	13	13	5	66
48	5/4	50 cal live	1700-2500	T1247	26	35	39	50	58	42	55	60	58	55	58	58	59	64	56	55	51	53	54	54	52	50	45	41	35	29	26	28	26	23	25	18	18	9	69
48	5/4	50 cal live	1700-2500	T1248	11	51	53	71	67	55	62	66	63	71	55	58	62	62	61	43	49	53	50	47	48	56	53	49	43	38	31	36	32	28	25	18	10	23	2	78
51	5/18	M-16 live	700-1000	T886	7	49	51	52	52	61	53	50	51	55	49	43	44	43	47	54	50	47	48	43	50	54	52	48	41	37	40	36	37	36	43	37	32	14	2	66
51	5/18	M-16 live	700-1000	T888	17	44	51	58	67	65	62	63	61	61	55	49	46	44	45	50	50	45	44	42	48	46	42	45	40	40	35	31	27	25	17	14	9	72
71	5/24	50 cal live	5000-6000	T10	11	64	61	56	53	50	45	43	43	40	37	35	33	33	29	35	35	33	32	33	24	28	25	30	25	24	17	21	14	6				67
71	5/24	50 cal live	5000-6000	T10	16	70	66	59	58	58	56	58	60	68	67	62	63	55	63	40	40	39	39	35	40	37	37	30	29	24	19	24	21	14	9			75
71	5/24	50 cal live	5000-6000	T10	24	61	56	55	50	53	57	59	58	62	63	59	61	55	61	42	41	39	38	35	42	37	37	31	28	27	22	24	20	15	11	10	6	70
99	5/23	50 cal live	4400-5000	T1364	4	23	35	47	43	54	56	58	61	64	65	64	64	55	64	45	44	40	40	40	46	42	45	41	37	37	36	36	34	30	27	26	21	69
99	5/23	50 cal live	4400-5000	T1365	3				50	49	54	58	56	61	64	66	62	63	66	65	62	63	61	61	60	57	55	49	47	46	45	40	41	39	35	30			72
99	5/28	50 cal live	4400-5000	T504	5	44		51	51	53	47	58	60	62	58	64	66	61	55	64	45	40	39	40	40	46	51	52	51	48	46	44	40	36	38	34	36	26	19	19	72
99	5/28	50 cal live	4400-5000	T504	9	44		42	51	49	53	60	62	62	62	57	55	49	52	55	40	34	36	36	40	45	46	45	43	39	40	38	34	32	21	21	16	69
99	5/28	50 cal live	4400-5000	T504	14	37	49	50	53	57	60	62	63	66	66	60	59	59	59	48	45	43	42	48	44	45	48	48	43	44	41	40	37	35	29	27	28	72
103	5/3	M-16 live	200-430	T600	6		61	59	48	63	66	62	69	68	69	70	67	64	65	72	65	64	71	80	79	74	76	82	82	81	74	77	72	69	64	69	54	53	89
103	5/3	M-16 live	200-430	T600	17	62		60	62	56	64	66	68	67	68	68	66	63	65	63	58	63	70	74	63	65	81	79	78	65	70	65	63	66	59	64	52	48	86
103	5/3	M-16 live	200-430	T600	27		62	60	0	62	65	62	68	67	68	68	66	61	62	60	50	61	57	61	61	66	64	64	66	63	66	63	60	57	47	45	36	35	78
103	5/3	M-16 live	200-430	T601	4	54	58	55	0	65	65	68	69	69	70	76	73	71	66	70	68	61	66	76	80	78	77	78	80	76	77	73	68	64	68	51	40	86
103	5/3	M-16 live	200-430	T601	18	63		58	55	48	63	62	68	68	69	68	62	56	57	59	51	56	62	69	78	77	77	78	78	73	74	69	66	64	45	38		77
103	5/3	M-16 live	200-430	T602	7	63	65	64	62	60	63	62	69	69	70	69	66	54	59	61	51	59	67	74	72	61	62	79	79	73	73	69	64	66	61	64	62	58	44	87
103	5/3	M-16 live	200-430	T602	16	57		60	58		65	64	68	68	68	69	68	57	67	63	67	74	63	73	75	76	77	76	78	71	70	67	63	60	56	45	30	83
103	5/3	M-16 live	200-430	T602	26		55	61	62	65	65	68	67	67	68	69	66	55	57	62	54	56	62	68	74	77	77	76	80	75	71	67	61	57	52	40	86
103	5/3	M-16 live	200-430	T603	4	63	51	63	63	63	62	68	69	70	70	69	65	56	54	64	55	62	69	73	78	77	79	78	80	75	75	66	64	61	66	64	64	53	42	86
103	5/3	M-16 live	200-430	T603	17	57	65	64	66	64	65	65	69	68	69	70	68	55	54	62	56	62	69	73	77	76	77	78	78	75	75	66	63	64	64	63	54	36	86
103	5/3	M-16 live	200-430	T603	30	64		65	61	64	64	65	69	69	70	69	63	58	58	63	54	60	62	74	76	77	80	76	78	71	68	64	64	65	62	60	59	46	87
103	5/3	M-16 live	200-430	T604	5		62	59	54	65	64	64	67	66	69	66	60	52	58	58	50	57	59	76	78	77	78	77	78	71	71	67	62	60	50	56	40	86
103	5/3	M-16 live	200-430	T604	8	60	48	62	62	62	66	60	62	67	66	66	58	52	49	57	58	54	58	59	60	58	54	60	57	50	54	56	50	0	44	30		75
103	5/3	M-16 live	200-430	T604	14	56		62	66	59	63	49	61	63	54	66	39	61	55	49	58	55	61	63	80	78	81	80	81	76	73	77	56	55	0	42	33		74
103	5/3	M-16 live	200-430	T604	25	65		68	68	72	72	72	70	68	70	65	68	68	68	68	70	68	66	66	80	78	80	81	80	77	73	68	71	56	59	63	66	56	41	89
103	5/3	M-16 live	200-430	T605	5	62	63	59	67	65	65	63	67	69	69	69	65	56	60	64	56	62	62	63	61	61	63	61	61	62	56	64	45	40	36	53	54	35	78
103	5/3	M-16 live	200-430	T605	16	63	60	66	68	66	69	63	68	70	70	67	60	59	61	60	51	54	62	64	62	60	61	60	60	64	62	62	46	35	30	46	59	36	79
103	5/3	M-16 live	200-430	T605	25	60	51	63	60	63	65	64	67	68	67	67	59	55	58	60	56	56	64	64	61	61	61	63	63	64	61	64	38	42	30	55	56	30	78

103	5/3	M-16 live	200-430	T605	28	54	61	56	60	59	65	64	68	68	66	63	60	56	58	46	58	58	56	59	63	64	65	65	56	59	60	61	63	66	68	68	65	63	60	57	54	47	42	30			38		76
103	5/3	M-16 live	200-430	T606	4	54	63	62	48	65	66	67	68	68	67	72	68	61	64	58	63	64	64	67	70	67	72	74	64	67	75	77	79	76	77	77	75	74	72	71	65	62	59	54	54	48	30	30	85
103	5/3	M-16 live	200-430	T606	17	57	65	59		67	66	66	59	61	62	61	59	61	63	49	63	64	63	63	71	67	61	60	54	56	61	62	61	62	62	59	56	54	60	56	54	33	46	38	38	79
103	5/3	M-16 live	200-430	T606	30	57	63	60	51	66	67	67	59	59	62	61	58	61	61	58	65	66	64	68	71	68	61	51	64	55	58	59	62	62	59	51	52	55	51	57	52	44	33		33	79
103	5/3	M-16 live	200-430	T607	8	64	65	60		66	66	68	68	68	69	68	64	64	64	58	65	67	68	72	73	71	66	61	64	68	66	66	66	66	66	59	61	56	58	42	48	42	40		38	82
103	5/3	M-16 live	200-430	T607	23	51	64	64	56	68	68	68	63	63	64	64	60	63	60	59	66	67	67	70	73	70	64	67	63	62	56	59	50	62	56	59	42	47	42	61	42	43		40	81
103	5/3	M-16 live	200-430	T608	11	62	63	63		66	67	69	69	72	73	77	74	71	71	65	68	68	69	71	73	71	79	77	76	79	74	57	68	57	60	65	63	61	68	50	61	63	50	57	47	89
103	5/3	M-16 live	200-430	T608	24	60	65	63		65	66	68	64	66	66	66	61	68	66	58	65	67	65	68	71	68	67	57	63	60	57	63	63	57	58	60	56	57	44	37	47	41	37		37	80
103	5/3	M-16 live	200-430	T609	6	51	65	62		64	65	64	64	64	64	64	61	69	68	56	63	66	66	68	69	68	64	61	61	56	58	61	56	58	56	44	39	46	43	42	35		42	79
103	5/3	M-16 live	200-430	T609	8		58		54	58	45	59	57	59	60	49	52	55	59	55	56	56	55	57	54	52	49	42	49	47	49	50	49	49	44			30	39	30	30		35	37	69
103	5/3	M-16 live	200-430	T609	15	57	65	59	63	62	62	0	61	59	61	53	52	56	51	40	56	56	43	56	65	61	49	45	53	52	51	50	51	51	49	49	39	42	39		36	37	0		30	72
103	5/3	M-16 live	200-430	T609	19	64	59	54	48	61	61	59	65	64	65	57	62	63	57	53	59	58	57	64	63	62	51	51	57	57	52	56	51	51	57	53	50	51	42			44	36		36	74
103	5/3	M-16 live	200-430	T609	22	51	62	59	52	59	60	62	58	56	61	57	0	57	54	44	57	58	54	62	60	57	52	0	50	50	52	50	51	52	54	44	48	44		37		0		35	72
103	5/3	M-16 live	200-430	T610	7	65	66	65	57	66	66	66	68	64	66	71	63	71	68	54	64	65	66	66	71	68	63	61	58	58	60	58	60	58	68	63	58	58	54	44	48	40	35		35	81
103	5/3	M-16 live	200-430	T610	10	60	57	58	55	62	59	52	63	63	56	65	61	65	51	52	59	59	57	62	61	61	56	57	0	0	57	49	51	51	54		35	48	43		47	33	0		0	73
103	5/3	M-16 live	200-430	T610	14	60	62	61		63	61	63	61	61	64	65	65	65	63	56	57	60	57	57	64	64	53	56	49	50	52	56	52	52	49	42	43	43	42	33	42	41	35		35	72
103	5/3	M-16 live	200-430	T610	24	59	65	63		66	68	68	72	72	67	73	70	73	65	56	65	66	66	67	73	70	65	53	59	56	59	57	56	59	64	56	50	57	48	39	48	39	38	53	38	81
103	5/3	M-16 live	200-430	T611	8	61	67	66	51	68	68	69	71	72	73	73	71	73	60	66	66	67	66	70	76	69	68	71	76	76	68	69	75	80	81	66	57	74	66	63	64	63	55	60		88
103	5/3	M-16 live	200-430	T611	21	66	65	62	60	66	68	66	70	71	64	71	67	71	58	56	63	65	65	63	71	67	54	59	61	54	62	57	63	63	80	62	35	57	48	42	48	47	38		33	80
103	5/3	M-16 live	200-430	T612	9	59	65	64	48	67	65	63	67	67	65	67	63	71	57	52	61	62	61	60	67	63	52	60	57	59	61	58	59	61	63	59	58	57	47	36	47	36	36	30	33	77
103	5/3	M-16 live	200-430	T612	13	61	57	61	55	62	59	52	63	66	66	65	61	65	57	56	56	63	62	59	66	64	53	55	52	55	59	55	56	54	64	52	42	55	41	35	41	35	36		33	76
103	5/3	M-16 live	200-430	T612	22	57		57		62	62	67	65	65	62	64	60	73	50	59	59	66	66	55	67	65	67	71	76	76	68	69	68	75	78	66	65	68	60	58	60	41	44	53	35	85
103	5/3	M-16 live	200-430	T613	3		60	58		63	56	62	65	65	61	64	56	71	46	57	58	60	57	50	64	60	48	49	56	50	53	50	48	61	48	58	50	53	53	46	50	38	38			74
103	5/3	M-16 live	200-430	T613	12	62	65	61	51	65	60	66	63	65	64	65	62	67	54	52	60	62	62	62	69	65	64	66	65	65	63	56	52	62	65	56	52	63	48	41	48	41	36	30	36	81
103	5/3	M-16 live	200-430	T613	19		53			57	45	60	63	60	57	57	53	57	43	56	51	54	53	53	59	64	53	52	52	53	51	51	42	42	64	51	42	51	42	33	42	33				71
103	5/3	M-16 live	200-430	T614	9	61	54	61		60	60	57	61	62	60	64	60	65	56	59	59	63	58	57	66	66	61	57	71	79	74	68	76	78	79	64	72	74	72	60	64	64	60	57	52	87
103	5/3	M-16 live	200-430	T614	17	59	54			56	57	56	59	59	58	58	49	60	51	50	51	51	47	50	57	55	57	57	49	50	52	51	48	60	59	51	0	51	0	30	36	36	30		30	70
103	5/3	M-16 live	200-430	T615	4	58	63			65	65	69	67	68	68	68	66	68	55	61	64	62	64	66	70	68	72	74	70	67	62	62	61	72	74	64	54	62	61	47	53	54	33	38	33	81

103	5/3	M-16 live	200-430	T615	16	51	64	59	64	65	64	68	68	67	68	65	61	64	63	52	62	61	57	61	61	60	61	54	60	61	56	45	39	33		77
103	5/3	M-16 live	200-430	T615	26		54	66	59	66	62	59	68	68	67	68	65	64	64	62	68	69	71	77	73	78	72	71	67	72	68	59	53	41	33	84
103	5/3	M-16 live	200-430	T616	6	56	58	60	48	62	65	63	68	67	60	61	62	54	62	61	60	67	58	46	60	60	62	61	58	46	55	52	42	30	39	33	77
103	5/3	M-16 live	200-430	T616	19	63	58	66	57	64	65	64	69	68	67	64	65	55	62	61	59	66	59	55	61	59	61	61	59	55	56	54	46	39	39		78
103	5/3	M-16 live	200-430	T617	8	56	63	48	66	67	71	69	69	71	65	67	65	58	62	61	59	68	59	57	63	61	63	64	56	57	59	56	47	39	37		80
103	5/3	M-16 live	200-430	T617	17	54	61	61	65	65	69	69	68	71	68	66	62	62	67	69	71	73	71	73	75	78	79	81	81	73	71	70	61	56	43		87
103	5/3	M-16 live	200-430	T617	29	63	64	61	65	66	70	70	68	68	67	66	57	62	61	59	63	59	56	63	62	63	63	64	56	58	56	44	30	40		79
103	5/3	M-16 live	200-430	T618	5	61	57	59	54	64	63	68	68	67	67	64	57	62	61	58	62	54	38	60	61	62	62	57	55	57	54	40	37	30		78
103	5/3	M-16 live	200-430	T618	17	62	64	57	66	66	68	70	67	70	66	65	62	62	62	60	66	57	50	67	62	62	62	60	54	64	60	43	38	37		79
103	5/3	M-16 live	200-430	T619	9	51	64	63	56	68	69	68	73	72	72	66	62	66	71	70	72	69	68	70	71	74	72	67	68	65	59	50	43	41	35	83
103	5/3	M-16 live	200-430	T619	22	61	62	61	54	68	65	68	72	69	69	63	59	63	64	63	62	59	41	65	63	62	63	58	56	57	56	46	38	40		81
103	5/3	M-16 live	200-430	T620	10	65	68	59	60	68	68	69	74	71	70	66	63	66	71	74	73	68	68	72	75	74	73	71	68	67	63	54	48	39	30	85
103	5/3	M-16 live	200-430	T620	23	60	60	63	65	67	68	70	72	70	67	63	57	62	64	59	62	59	60	62	65	62	64	57	57	58	55	47	38	33		81
103	5/3	M-16 live	200-430	T621	3		58	51	54	65	66	69	70	67	66	62	55	61	59	63	61	63	50	68	70	70	68	68	63	65	59	52	48	36		80
103	5/3	M-16 live	200-430	T621	17	61	67	62	56	66	67	67	73	72	67	65	59	65	67	67	71	69	60	70	74	75	74	72	69	67	64	56	53	42		84
103	5/3	M-16 live	200-430	T622	5	64	63	59	62	66	66	70	72	69	67	64	62	65	69	67	72	74	63	74	75	79	80	83	79	71	65	62	63	54	39	86
103	5/3	M-16 live	200-430	T622	18	61	60	51	51	65	67	67	70	71	67	64	57	61	61	61	62	57	30	62	63	60	62	63	52	55	57	43	35	38		79
103	5/3	M-16 live	200-430	T623	6	59	61	51	66	67	69	70	71	72	68	65	55	62	60	54	61	54	47	61	62	60	61	50	50	55	41	42	36	40		79
103	5/3	M-16 live	200-430	T623	21	64	63	63	53	68	69	69	71	71	67	65	62	67	67	70	74	71	71	71	78	79	78	84	71	72	69	65	63	55		87
103	5/3	M-16 live	200-430	T624	9	66	63	63	53	60	64	69	70	69	66	62	55	66	64	63	68	62	48	68	67	67	68	65	57	65	64	49	44	42		83
103	5/3	M-16 live	200-430	T624	27	63	63	64	67	65	67	69	71	70	67	66	59	66	66	69	69	66	60	69	71	71	71	80	56	62	60	50	40	39		83
103	5/3	M-16 live	200-430	T625	8		65	61	54	67	66	68	69	69	68	66	62	65	66	68	69	68	63	67	69	69	68	83	59	61	58	48	41	42	37	89
103	5/3	M-16 live	200-430	T625	20	62	60	59	56	65	67	67	68	68	68	64	64	65	64	68	72	74	71	75	74	75	80	84	58	66	59	50	42	56		90
103	5/3	M-16 live	200-430	T626	8	62	65	61	65	66	65	70	69	68	65	61	51	62	61	59	61	57	41	60	51	59	61	60	47	41	56	49	37	33		79
103	5/3	M-16 live	200-430	T626	26	68	56	64	63	69	69	74	73	71	71	71	54	67	66	63	65	59	57	58	59	65	66	60	57	57	56	50	42	40		83
103	5/3	M-16 live	200-430	T627	9	62	62	62	54	68	67	72	72	72	68	68	59	65	65	64	64	63	38	64	65	63	66	65	50	56	59	48	41	39		81
103	5/3	M-16 live	200-430	T627	25	64	65	63	67	68	67	71	72	69	66	66	62	65	65	64	65	60	39	65	68	67	68	66	46	50	56	50	42	30		81
103	5/3	M-16 live	200-430	T628	11	63	66	61	66	61	68	67	71	70	68	64	57	64	65	64	68	67	59	66	68	74	74	77	59	66	52	55	47	40		84
103	5/3	M-16 live	200-430	T629	2		59	48	60	69	64	70	69	70	61	49	61	56	52	59	53	43	53	51	60	53	52	51	48	49	41	45	33		69
103	5/3	M-16 live	200-430	T629	7		58		60	0	45	63	60	54	61	56	36	54	57	54	56	54	45	59	57	60	59	57	49	50	52	41	41	30		71
103	5/3	M-16 live	200-430	T629	11	51	59		57	57	45	60	55	53	57	53	0	49	53	39	55	53	42	54	59	62	65	63	54	58	54	44	30	30		72

				Target																														
103	5/3	M-16 live	200-430	T629	22	57	60	56	63	60 56	64 62	60	64	54	58	59	45	57	57	52	61	63	63	65	64	59	57	55	33	41	30		36	75
103	5/3	M-16 live	200-430	T630	3	56	51	57	57		59 62	59	56	58	55	54	0	52	52	54	57	59	59	61	58	49	49	49		38	33	33		36	71
103	5/3	M-16 live	200-430	T630	12		48 57	54	63	60 56	64 62	60	64	55	56	55	45	56	58	57	61	62	60	60	57	51	52	50	62	40		30	73
103	5/3	M-16 live	200-430	T630	21	62	60 57	57	57	63	61 60	59	63	53	57	56	54	60	64	67	72	74	72	70	73	72	67	62	38	58	51	38	45	81
103	5/3	M-16 live	200-430	T631	3	59	48 48	60	57 57	45	63 61	60	63	59	54	55	47	53	53	55	51	55	57	55	55	55	48	38	37	35		71
103	5/3	M-16 live	200-430	T631	15	65	64 60	63	61 62	66	66 64	63	66	62	57	60	53	61	61	61	57	63	64	63	63	61	56	47	38	44	44	33	76
103	5/3	M-16 live	200-430	T631	22	60 51	55 54	60	62	64	66 64	65	58	58	58	46	53	51	58	57	62	62	58	60	53	51	54	30	53	35	44	37	75
103	5/3	M-16 live	200-430	T632	2	56	59	51	59	0 61	59 62	63	61	58	56	49	56	54	53	53	55	51	55	42	51	46	44	41	36		71
103	5/3	M-16 live	200-430	T632	10	59	56 60	54	60 55	56	62 61	58	61	58	54	48	57	54	54	52	57	57	58	50	47	49	40	49	40		71
103	5/3	M-16 live	200-430	T632	14	59	54	56 55	55	57	60 55	57	60	57		53	46	55	55	55	59	52	47	47	52	30		70
103	5/3	M-16 live	200-430	T633	3	57	57 62	64 58	56	55 61	55 57	60	63	61	57	57	46	53	60	55	59	65	63	67	57	64	47	59	54	43	37	84
103	5/3	M-16 live	200-430	T633	26		64 62	66 66	67 63		66	62	39	58	55	42	58	46	56	55	35	75
103	5/3	M-16 live	200-430	T634	5	57	65 59	64 65	64 68	67	71	68	66	65	66	62	66	68	68	76	71	79	79	80	79	77	69	71	60	56	35	87
103	5/3	M-16 live	200-430	T634	16	60	63 62	63 62	64 62	69	69	68	64	61	64	56	61	59	59	48	60	59	57	55	53	46	33	33	78
103	5/3	M-16 live	200-430	T634	26	65	63 56	63 56	64 65	68	69	66	63	57	63	57	62	61	62	62	70	75	77	76	77	75	70	52	46	40	84
103	5/3	M-16 live	200-430	T635	5	59	63 61	63 61	65 58	70	69	68	64	57	65	56	61	55	57	56	55	60	58	48	52	55	30	46	38	79
103	5/3	M-16 live	200-430	T635	17	63	66 59	66 64	65 64	67	69	67	64	55	63	58	59	53	61	59	59	55	45	56	51	55	33	45	36	77
103	5/3	M-16 live	200-430	T635	21	54	59 57	60 58	62 59	63	60	52	59	52	55	54	61	71	65	66	71	78	78	77	80	71	64	56	49	36	86
103	5/3	M-16 live	200-430	T636	6	58	61 62	60 65	66 68	68	69	66	66	54	62	60	66	71	70	75	72	75	79	77	78	75	70	63	64	67	59	86
103	5/3	M-16 live	200-430	T636	17	54	60 61	60 64	64 64	69	70	69	66	61	60	54	65	58	60	61	62	55	58	66	63	56	44	36	50	79
103	5/3	M-16 live	200-430	T636	29	56	62 65	63 56	66 65	68	69	66	68	63	62	57	61	60	62	53	61	55	54	61	60	57	52	30	36	78
103	5/3	M-16 live	200-430	T637	6	63	66 59	65 63	66 67	67	69	64	68	64	60	56	61	57	62	61	61	48	55	44	44	36	79
103	5/3	M-16 live	200-430	T637	16	54	59 57	60 58	59 62	67	70	67	66	60	52	64	61	59	59	59	62	55	56	45	47	36	77
103	5/3	M-16 live	200-430	T637	30	63	61 62	60 65	66 64	68	72	68	69	65	64	54	66	70	72	72	75	71	78	75	64	56	49	86
103	5/3	M-16 live	200-430	T638	2	62	60 62	59	67	62 60	66 64	65	68	62	64	54	60	60	60	66	66	75	63	62	60	56	45	40	80
103	5/3	M-16 live	200-430	T638	17	57	65 62	65	69 67	72	73	68	69	69	61	57	64	63	58	64	58	56	57	46	45	39	81
103	5/3	M-16 live	200-430	T639	9	64	65 66	65 61	69 69	69	72	70	71	69	67	65	67	69	64	67	65	60	62	51	42	38	82
103	5/3	M-16 live	200-430	T639	21	60	65 50	65 63	64 65	69	69	67	69	64	60	54	61	60	60	57	60	54	50	55	46	37	78

				Target	Seq	Scores (left → right)
103	5/3	M-16 live	200-430	T640	5	58 65 62 56 64 65 70 69 70 67 63 64 62 61 49 56 61 60 58 60 59 54 52 44 40 37 79
103	5/3	M-16 live	200-430	T640	17	60 62 63 67 66 70 71 72 70 67 67 66 68 71 73 76 81 82 84 83 81 73 74 69 67 63 35 92
103	5/3	M-16 live	200-430	T641	5	51 61 60 65 66 65 70 69 67 65 64 66 60 57 69 73 80 80 76 75 71 67 69 59 45 88
103	5/3	M-16 live	200-430	T641	16	59 61 65 64 69 67 67 63 62 60 53 59 60 53 57 58 60 55 54 52 45 40 33 30 77
103	5/3	M-16 live	200-430	T642	6	62 63 58 48 55 64 64 65 68 61 63 63 66 60 53 64 61 61 60 61 61 59 55 47 36 39 78
103	5/3	M-16 live	200-430	T642	20	63 66 64 57 68 65 69 66 71 60 66 67 68 66 61 71 65 65 73 75 75 67 69 60 47 55 85
103	5/3	M-16 live	200-430	T643	3	58 55 48 61 60 63 68 69 67 52 62 64 64 61 57 56 58 55 58 58 57 58 52 40 30 33 77
103	5/3	M-16 live	200-430	T643	9	51 64 62 54 65 64 68 70 69 54 65 64 61 59 56 59 61 60 61 62 61 58 49 46 39 40 30 79
103	5/3	M-16 live	200-430	T643	27	54 66 66 62 67 67 66 71 73 66 63 68 68 65 61 61 64 67 67 71 70 64 66 52 46 39 82
103	5/3	M-16 live	200-430	T644	7	56 63 63 54 66 67 65 70 69 54 67 67 67 66 69 75 81 82 83 83 75 73 78 60 50 70 68 92
103	5/3	M-16 live	200-430	T644	24	66 63 61 52 64 66 68 71 70 49 62 65 64 54 61 59 61 55 56 56 59 55 46 38 36 79
103	5/3	M-16 live	200-430	T645	3	61 63 64 52 61 68 64 67 68 30 55 57 59 54 51 56 58 58 51 51 49 47 50 54 44 37 30 76
103	5/3	M-16 live	200-430	T645	5	51 60 58 58 56 61 60 64 60 46 51 44 56 51 44 54 49 42 49 47 46 44 50 39 33 30 70
103	5/3	M-16 live	200-430	T645	24	64 64 58 67 67 67 68 72 70 80 75 66 71 73 67 69 75 77 80 79 79 72 73 68 47 66 62 88
103	5/3	M-16 live	200-430	T646	9	58 61 63 57 67 68 72 71 69 63 66 68 66 61 63 64 64 65 63 60 58 56 56 50 43 68 35 81
103	5/3	M-16 live	200-430	T646	26	66 63 64 48 66 64 64 70 70 64 68 65 67 68 64 65 74 74 64 64 57 60 57 46 39 43 39 81
103	5/3	M-16 live	200-430	T647	9	64 66 65 57 67 68 70 70 69 76 73 64 70 72 68 65 74 74 76 73 66 59 53 45 37 84
103	5/3	M-16 live	200-430	T648	1	56 57 60 49 61 57 64 61 54 52 54 54 51 49 50 51 50 48 48 47 33 71
103	5/3	M-16 live	200-430	T648	10	53 61 61 58 63 62 58 59 55 51 52 51 50 48 49 46 45 43 49 49 30 70
103	5/3	M-16 live	200-430	T648	18	53 56 58 61 54 57 61 60 54 42 53 54 53 52 51 51 49 46 47 36 30 71
103	5/3	M-16 live	200-430	T649	2	48 53 58 57 58 60 56 62 58 33 55 55 54 49 52 62 52 47 44 37 71
103	5/3	M-16 live	200-430	T649	11	55 57 54 62 66 66 71 70 71 47 54 55 55 56 61 65 57 50 47 40 30 70
103	5/3	M-16 live	200-430	T649	21	60 51 57 58 58 66 70 71 71 37 60 58 59 64 62 69 71 66 60 53 47 44 33 74
103	5/3	M-16 live	200-430	T650	4	59 62 54 61 62 63 64 69 70 50 52 57 60 54 56 56 58 53 50 49 66 57 60 44 74
103	5/3	M-16 live	200-430	T650	11	57 62 56 57 61 64 68 70 71 54 55 56 61 59 61 62 55 51 53 43 67 50 56 44 33 70
103	5/3	M-16 live	200-430	T650	14	59 58 62 60 57 60 61 62 62 50 51 59 56 51 56 61 51 45 51 62 72 73 70 72
103	5/3	M-16 live	200-430	T650	22	57 59 60 62 56 60 57 58 52 58 55 53 52 51 48 49 50 51 51 39 35 71
103	5/3	M-16 live	200-430	T651	5	66 66 62 66 66 72 71 72 64 44 56 54 55 57 53 53 52 51 51 52 47 40 33 30 39 71
103	5/3	M-16 live	200-430	T651	18	66 57 62 66 66 70 71 72 71 71 64 64 65 65 69 69 70 68 62 68 60 58 49 42 37 39 82
103	5/3	M-16 live	200-430	T651	26	65 63 58 48 63 64 64 69 70 60 63 66 66 66 63 62 72 62 62 66 67 64 60 53 48 50 80
103	5/3	M-16 live	200-430	T652	4	65 57 61 61 62 65 68 71 71 62 64 63 65 61 56 62 62 62 61 57 61 58 53 40 44 39 80

103	5/3	M-16 live	200-430	T652	19	65	65	62	66	67	68	71	71	72	70	67	67	66	57	64	62	56	63	63	61	66	67	70	72	71		53	55	53		45	40		38	54	81
103	5/3	M-16 live	200-430	T653	7	60	63	63	48	65	65	66	66	69	69	64	66	54	61	61	54	62	62	61	62	66	69	71	69	56	51	58	56	45	36	37	30	80
103	5/3	M-16 live	200-430	T653	16	60	60	62	65	66	66	70	72	77	80	76	80	69	65	63	69	68	76	77	74	73	70	72	67	65	76	73	70	65	62	52	42	87
103	5/3	M-16 live	200-430	T653	28	61	59	59	61	64	67	55	72	61	63	62	61	56	56	62	55	62	63	63	62	67	69	72	67	59	55	39	42	59		39		80
103	5/3	M-16 live	200-430	T654	7	59 54	60 62		66	65	67	66	69	60	62	63	63	56	57	61	64	66	62	60	61	67	69	72	67	55	52	55	52	46	39	37	33	80
103	5/3	M-16 live	200-430	T654	19	60 54	64 61		64	65	70	73	73	66	65	62	65	59	59	65	64	66	73	75	74	66	69	69	66	62	53	68	73	62	53	47	53	84
103	5/3	M-16 live	200-430	T655	9	63	64	64	58	69	69	68	71	71	74	72	66	67	61	67	66	67	72	73	73	68	73	61	55	59	69	67	51	43	36	30	85
103	5/3	M-16 live	200-430	T655	26	64	67	67	67	69	69	67	76	75	76	71	66	66	69	69	70	72	76	75	74	69	72	58	64	68	65	56	54	47	42	30	86
103	5/3	M-16 live	200-430	T656	10	64	60	63	59	66	69	69	75	78	75	72	78	63	68	70	68	71	72	73	75	69	69	55	59	65	60	55	47	47	35	30	88
103	5/3	M-16 live	200-430	T656	22	56	60	62	54	66	67	68	71	73	72	73	71	61	63	66	66	69	71	71	72	60	58	47	47	38	41	82
103	5/3	M-16 live	200-430	T657	6	63 51	63	60		66	66	69	70	72	70	71	72	59	62	66	65	69	69	68	70	58	55	47	42	38	40	30	81
103	5/3	M-16 live	200-430	T657	18	64	62	60	67	66	67	71	73	72	71	73	66	66	61	66	67	69	71	71	73	55	60	64	57	50	55	37	83
103	5/3	M-16 live	200-430	T658	6	61	66	56	64	64	66	68	71	71	68	71	63	61	56	63	65	66	68	71	60	59	55	47	47	38	79
103	5/3	M-16 live	200-430	T658	19	63	64	62	58	67	65	69	73	75	80	71	80	56	61	63	66	67	69	63	65	53	46	37	36	80
103	5/3	M-16 live	200-430	T659	6	63	66	66	67	68	66	70	72	72	74	72	82	56	61	61	65	67	69	74	75	75	66	44	46	38	36	81
103	5/3	M-16 live	200-430	T659	20	64	67	64	66	67	67	69	72	69	67	63	74	57	60	63	65	66	67	67	66	68	51	53	52	38	39	30	83
103	5/3	M-16 live	200-430	T660	10	65	66	48	69	67	68	73	74	71	75	54	74	44	61	63	66	67	60	57	56	54	48	51	56	50	60	48	86
103	5/3	M-16 live	200-430	T660	13	59	48	61	60	59	64	60	64	55	53	43	51	59	56	61	66	60	58	55	45	37	33	73
103	5/3	M-16 live	200-430	T660	28	64	68	63	70	69	68	71	73	78	76	82	82	67	65	65	65	66	74	75	82	74	66	39	45	36	52	90
103	5/3	M-16 live	200-430	T661	6	63	62	57	66	67	67	70	72	74	69	74	52	62	63	67	67	60	66	68	58	66	63	55	58	52	38	46	84
103	5/3	M-16 live	200-430	T661	9	54	60 57	59	63	60	57	56	60	63	51	0	54	56	57	56	53	48	47	36	51	50	35	39	73
103	5/3	M-16 live	200-430	T661	22	63 51	64	66	58	67	71	71	73	71	66	59	60	65	62	61	66	66	53	57	47	45	57	55	56	45	42	80
103	5/3	M-16 live	200-430	T661	25	65	60	61 54	60	55	53	53	59	49	43	48	53	58	60	35	39	69
103	5/3	M-16 live	200-430	T662	7	58	62 64	66	65	66	70	71	70	73	63	80	82	59	65	64	58	59	60	46	39	39	45	39	52	55	37	30	80
103	5/3	M-16 live	200-430	T662	24	59	63 59	68	67	68	72	73	74	78	77	74	67	67	67	59	60	74	72	63	66	61	55	58	69	61	52	35	86
103	5/3	M-16 live	200-430	T663	10	64	67	67	60	69	69	67	73	72	68	52	66	56	67	67	62	64	64	36	47	51	42	62	70	60	45	41	82
103	5/3	M-16 live	200-430	T663	12	54	58	59 57	60	51	61	58	56	49	47	36	48	50	47	33	30	70
103	5/3	M-16 live	200-430	T663	26	62	67	65	50	66	67	67	70	70	68	59	59	56	62	61	62	61	54	56	47	36	54	56	47	39	80

				Target	Trial																																	
103	5/3	M-16 live	200-430	T664	10	63	61	62	56	69	67	72	73	72	73	70	68	66	68	58	64	63	68	70	71	72	71	70	68	65	62	55	54	48	39	41	30	83
103	5/3	M-16 live	200-430	T665	7		63	59		64	67	69	69	67	69	66	64	62	64	64	70	71	76	78	80	82	80	78	76	80	77	73	73	71	67	61	46	90
103	5/3	M-16 live	200-430	T665	15	64	56	64	62	65	67	70	68	69	64	67	61	63	66	61	67	66	73	78	81	82	81	78	76	73	70	68	59	60	57	51	30	88
103	5/3	M-16 live	200-430	T665	24	62	57	67	60	65	64	68	69	68	62	67	59	60	63	63	69	65	79	79	81	81	81	79	76	77	74	72	73	69	63	61	45	89
103	5/3	M-16 live	200-430	T666	6			64	67	62	63	68	69	69	66	70	64	64	65	66	73	64	66	68	83	81	83	84	79	83	74	74	74	71	68	62	60	92
103	5/3	M-16 live	200-430	T666	13	64	61	59	61	63	62	66	66	63	60	66	60	54	64	60	66	62	62	64	84	82	83	82	77	80	75	75	75	74	72	67	53	91
103	5/3	M-16 live	200-430	T666	16		60	56		57	61	53	57	62	57	64	57	60	59	59	63	57	59	60	65	65	65	64	71	63	65	63	53	56	36	35		76
103	5/3	M-16 live	200-430	T666	24	58		61	63	66	63	64	68	67	62	72	64	55	59	59	65	64	64	61	70	75	80	80	75	65	70	66	61	57	51	45		86
103	5/3	M-16 live	200-430	T667	5	61		60	61	64	59	62	67	66	60	60	62	47	57	56	61	62	52	62	65	62	64	65	64	62	53	57	30			35		77
103	5/3	M-16 live	200-430	T667	10	56		57			57		63	63	59	61	60	47	53	55	60	58	57	59	53	53	52	57	54	57	50	48	33					72
103	5/3	M-16 live	200-430	T667	13			64	62	56	62	64	63	62	60	61	61	60	55	57	62	56	58	35	45	51	52	53	67	54	43	53	42	42		35		73
103	5/3	M-16 live	200-430	T667	20	59		64	62	62	59	64	61	60	61	61	56	55	49	57	59	59	60	66	68	54	56	58	55	53	44	51	42	42				74
103	5/3	M-16 live	200-430	T667	23			60		60	0	64	64	64	62	62	66	47	56	58	62	60	59	74	73	72	75	72	74	74	70	62	56	56	52	43		82
103	5/3	M-16 live	200-430	T668	4	57		64	62	63	64	66	67	67	66	66	61	53	53	60	66	64	62	65	68	73	79	78	70	65	66	62	46	36	36			78
103	5/3	M-16 live	200-430	T668	11	61		51	55	51	60	59	57	60	59	54	51	47	47	56	57	53	56	43	53	50	52	52	53	56	43	49	35	30				72
103	5/3	M-16 live	200-430	T669	4			63	63	62	62	62	66	62	62	68	60	60	64	62	63	58	60	66	76	76	79	76	74	74	69	63	62	53	55	45	36	83
103	5/3	M-16 live	200-430	T669	11	60		51		53	59	53	61	63	61	69	58	57	66	57	61	57	66	66	65	75	71	72	70	76	68	61	54	51	55	36	30	82
103	5/3	M-16 live	200-430	T669	20			53	58	64	59	64	62	62	60	62	57	49	56	60	59	58	61	66	69	78	74	76	70	67	66	54	58	47	47	56	35	84
103	5/3	M-16 live	200-430	T669	22	51	58	52	52	55	59	65	64	61	58	60	57	56	59	61	61	53	52	43	48	50	52	52	49	49	43	48	35	33	17	21	35	69
103	5/3	M-16 live	200-430	T669	28	57	53	48		60	60	59	58	57	59	61	57	47	56	56	62	58	57	74	76	78	79	78	74	68	69	62	59	55	17	20	36	85
103	5/3	M-16 live	200-430	T670	2			56	57	57	60	62	61	56	61	62	58	60	60	58	57	57	58	69	70	72	71	72	69	66	68	61	55	49	17	17	30	79
103	5/3	M-16 live	200-430	T670	13			53	58	64	59	62	59	61	62	64	61	61	59	59	61	60	64	71	74	76	74	75	68	66	66	63	54	50	12	21		81
103	5/5	M-16 live	200-430	T99	3	50	47	49	52	52	55	58	59	58	64	65	60	59	52	56	57	64	72	75	75	77	74	73	67	70	63	56	51	46	44	12		82
103	5/5	M-16 live	200-430	T99	13	43	3	46	48	55	55	63	64	66	65	66	56	52	48	56	61	64	64	50	48	56	56	55	54	65	50	35	27	17	26	37		74
103	5/5	M-16 live	200-430	T99	24	33	40	45	47	54	54	65	66	63	66	67	53	49	51	53	60	64	64	51	50	50	55	55	57	67	51	37	28	17	20	21		74
103	5/5	M-16 live	200-430	T100	3	44	39	50	48	53	57	62	66	65	67	67	55	48	53	56	64	64	65	48	55	48	52	52	59	65	51	34	26	12	17	17		74
103	5/5	M-16 live	200-430	T100	15	38	41	46	46	51	54	63	62	62	63	63	52	47	55	52	62	61	61	35	45	41	52	51	50	63	48	31	23	12	17	21		71
103	5/5	M-16 live	200-430	T100	27	46	47	49	45	53	58	64	62	59	63	62	51	46	52	51	60	60	60	48	52	50	53	52	56	66	49	33	23	12	21	21		71
103	5/5	M-16 live	200-430	T100	29	42	42	45	48	51	53	64	64	60	65	63	52	49	57	52	64	64	60	49	52	54	53	52	57	62	54	34	26	26	44	12		71
103	5/5	M-16 live	200-430	T101	3	49	3	46	49	57	60	65	66	63	66	67	57	54	54	57	62	61	62	59	70	72	71	72	69	68	48	52	45	48	44	40		79
103	5/5	M-16 live	200-430	T101	11	36		43	43	42	47	50	65	64	65	65	48	44	40	48	55	60	45	47	48	44	47	47	47	44	40	29	20	20	15			72

				Target																																	
103	5/5	M-16 live	200-430	T101	13	39	44	47	47	50	53	56	62	63	65	65	64	60	52	50	49	45	50	52	51	52	55	50	48	44	42	35	31	24	17	15	72
103	5/5	M-16 live	200-430	T101	24	40	37	43	46	50	54	57	61	63	64	62	61	56	51	51	47	45	51	49	50	51	49	47	45	42	35	30	23			71
103	5/5	M-16 live	200-430	T101	26	36	42	48	50	51	54	57	61	63	64	63	62	57	50	51	46	47	53	50	53	54	52	49	47	43	43	33	36	26		17	72
103	5/5	M-16 live	200-430	T102	4	38	47	51	48	53	56	60	63	65	66	65	65	62	56	57	52	52	59	56	56	57	58	58	52	50	44	41	39	35	26	24	75
103	5/5	M-16 live	200-430	T102	15	33	48	48	49	54	57	60	65	65	66	63	61	57	56	53	53	61	57	59	61	56	60	59	56	55	53	44	39	33	21	23	75
103	5/5	M-16 live	200-430	T102	18	40	44	45	48	51	55	60	62	62	63	60	61	56	50	54	46	46	49	50	52	50	49	50	49	47	44	41	30	24		12	71
103	5/5	M-16 live	200-430	T103	2	38	46	51	54	58	59	63	66	67	68	66	65	57	56	52	51	56	55	56	62	57	55	56	52	52	49	46	36	28		17	75
103	5/5	M-16 live	200-430	T103	5	37	35	43	48	53	58	62	65	67	68	66	65	59	55	55	57	57	59	55	57	63	57	55	51	51	50	46	48	33	33	27	76
103	5/5	M-16 live	200-430	T103	17	49	48	48	51	54	57	61	67	68	68	65	62	62	59	57	57	59	58	57	62	61	64	64	61	59	54	53	59	56	57	54	82
103	5/5	M-16 live	200-430	T103	21	33	39	45	47	52	55	60	63	64	64	62	60	56	47	47	47	49	53	52	53	50	52	53	50	49	47	46	33	27	12	21	71
103	5/5	M-16 live	200-430	T104	1		37	41	44	52	55	57	61	62	63	61	61	56	52	53	46	47	50	43	52	53	50	53	50	48	43	43	37	22	15	17	70
103	5/5	M-16 live	200-430	T104	3	44	39	45	49	54	57	60	64	65	65	64	60	58	55	52	51	52	54	45	48	52	54	53	51	51	44	43	35	24	12	20	72
103	5/5	M-16 live	200-430	T104	13	41	43	48	47	51	54	58	65	67	67	65	61	59	55	55	56	53	52	53	53	53	52	56	49	47	45	41	31	24	15	20	74
103	5/5	M-16 live	200-430	T105	4	43	37	44	44	55	59	62	64	64	65	63	60	56	52	54	51	49	57	52	57	56	52	51	47	47	39	37	35	26	15	17	72
103	5/5	M-16 live	200-430	T105	8	41		39	48	49	53	56	60	60	63	59	59	53	50	51	45	43	49	43	52	49	47	46	43	44	37	38	28	21		12	69
103	5/5	M-16 live	200-430	T105	11		40	33	42	50	52	56	60	61	62	61	61	57	45	48	44	45	57	53	57	53	53	50	44	45	39	37	24	17		12	68
103	5/5	M-16 live	200-430	T105	15	35	42	41	46	49	54	56	60	60	61	59	59	52	43	45	49	47	56	49	57	57	57	56	45	45	42	40	26	12			69
103	5/5	M-16 live	200-430	T105	18		35	41	45	51	54	57	64	65	64	60	58	52	45	49	51	49	54	50	57	55	57	57	46	49	40	39	24	12			70
103	5/5	M-16 live	200-430	T105	23	36	39	41	48	49	53	56	60	60	63	61	60	50	49	47	49	52	50	47	55	53	57	56	41	44	37	41	28	19			68
103	5/5	M-16 live	200-430	T106	24	3	40	47	50	55	57	60	64	65	66	64	63	53	55	54	56	57	59	53	58	58	59	56	38	51	37	40	33	15	25	24	74
103	5/5	M-16 live	200-430	T107	2	3	30	46	45	50	53	57	66	66	65	65	61	57	48	50	52	55	57	51	56	57	58	59	54	54	50	46	40	36		18	74
103	5/5	M-16 live	200-430	T107	15	3	46	45	51	54	57	60	65	65	66	64	60	56	53	51	54	57	57	52	53	57	57	56	53	53	43	36	36	21	15	21	74
103	5/5	M-16 live	200-430	T108	2	40	43	48	51	53	56	60	66	67	66	65	62	52	50	52	57	55	57	54	58	57	58	55	48	53	35	35	28	32	20	17	74
103	5/5	M-16 live	200-430	T108	6	5	48	52	54	58	60	63	67	67	65	64	60	50	53	54	56	57	57	56	59	58	56	53	43	51	40	39	32	26	20	19	75
103	5/5	M-16 live	200-430	T108	17	3	43	48	50	53	57	61	66	67	66	65	62	51	57	49	56	59	57	49	58	58	56	56	53	53	43	38	29	15	15	22	76
103	5/5	M-16 live	200-430	T108	20	36	40	46	49	56	57	60	66	66	67	64	60	56	56	55	56	58	59	57	58	59	58	59	43	43	39	39	31	15	15	15	75
103	5/5	M-16 live	200-430	T108	25		36	45	48	51	54	57	63	63	64	62	56	54	53	52	52	59	56	53	52	54	58	56	47	48	39	32	23	21		12	72
103	5/5	M-16 live	200-430	T109	3	39	46	46	50	54	58	61	62	62	63	60	61	56	52	56	58	59	57	57	57	56	59	59	48	52	42	36	30	21	15	15	72

103	5/5	M-16 live	200-430	T109	8	46	41	47	49	51	54	58	60	63	65	66	67	65	65	62	58	57	58	60	64	67	68	66	65	67	64	61	63	66	68	67	67	63	61	55	49	47	45	40	37	78
103	5/5	M-16 live	200-430	T109	18	42	36	46	48	49	52	55	58	62	63	64	65	61	64	56	54	55	55	58	63	65	67	68	70	67	61	56	58	61	66	64	63	59	56	52	50	46	43	41	37	30	77
103	5/5	M-16 live	200-430	T109	24	44	41	51	54	57	61	64	68	69	70	69	70	68	66	63	61	59	59	56	60	63	66	66	68	63	60	57	56	66	66	63	59	60	56	50	47	39	31	26	12	79
103	5/5	M-16 live	200-430	T110	3	33	33	45	48	51	53	57	58	61	60	57	57	48	57	52	50	50	50	49	50	48	50	49	48	50	49	47	42	43	46	46	43	42	37	28	26	20	17	69
103	5/5	M-16 live	200-430	T110	7	36	43	43	47	46	50	51	53	58	60	61	67	60	67	68	61	56	58	59	65	68	69	61	60	56	56	57	52	57	60	61	58	52	48	43	35	22	24	15	77
103	5/5	M-16 live	200-430	T110	16	43	41	36	42	45	48	52	55	59	60	60	54	54	59	50	49	48	46	44	45	44	48	45	47	44	45	46	38	43	45	47	34	25	21	12	68
103	5/5	M-16 live	200-430	T110	18	33		41	45	45	48	51	55	57	58	59	57	45	59	46	44	46	47	44	45	46	47	49	47	45	46	45	36	43	40	44	36	31	26	17	67
103	5/5	M-16 live	200-430	T111	3	46	44	50	47	49	53	57	59	63	65	66	64	57	66	56	54	54	56	52	53	53	59	54	54	47	45	41	35	33	31	22	17	75
103	5/5	M-16 live	200-430	T111	7	38		43	43	47	50	51	54	57	58	57	49	45	57	44	47	47	45	50	42	47	45	44	49	39	42	42	28	21	12	67
103	5/5	M-16 live	200-430	T111	10				43	45	44	49	53	55	59	60	53	47	48	50	46	46	50	48	43	49	44	44	40	34	39	42	23	12	67
103	5/5	M-16 live	200-430	T111	13	46	48	49	48	51	55	57	60	64	66	68	66	67	69	58	60	60	57	58	65	63	67	68	65	60	63	66	52	53	48	45	36	32	79
103	5/5	M-16 live	200-430	T111	17	46	45	47	50	54	58	50	54	55	57	55	58	57	58	54	55	53	52	57	60	57	58	52	53	45	44	42	38	31	31	18	23	75
103	5/5	M-16 live	200-430	T112	3	42	30	48	46	50	54	59	62	65	66	68	62	63	69	58	56	60	56	58	63	61	68	67	65	50	49	46	46	39	37	31	27	20	76
103	5/5	M-16 live	200-430	T112	5	39	41	43	46	51	54	57	60	62	63	64	53	55	64	51	52	53	50	52	54	53	56	57	53	46	48	48	37	35	27	22	18	15	72
103	5/5	M-16 live	200-430	T112	7	42	42	37	41	44	52	54	57	60	64	65	62	61	67	56	57	51	51	56	63	57	61	59	61	59	57	53	49	43	35	26	32	73
103	5/5	M-16 live	200-430	T112	19	33	3	43	49	51	54	57	60	64	66	67	67	66	68	58	57	56	57	52	63	64	67	65	66	50	53	53	48	46	43	38	32	23	76
103	5/5	M-16 live	200-430	T113	4	42	33	43	47	45	51	55	61	63	64	64	52	56	64	50	50	48	50	52	57	52	52	53	48	46	44	46	38	34	26	26	17	72
103	5/5	M-16 live	200-430	T113	8	44	5	47	50	50	55	58	60	66	67	65	60	58	66	56	56	56	55	56	63	58	60	51	58	44	45	37	44	34	37	28	25	76
103	5/5	M-16 live	200-430	T114	2	44	51	48	47	51	49	53	56	59	60	61	53	45	61	56	52	50	47	49	59	52	53	45	50	51	48	37	30	30	20	15	18	70
103	5/5	M-16 live	200-430	T114	12		37	46	47	46	50	54	56	60	62	62	54	54	62	58	55	53	52	53	56	61	59	52	58	52	48	43	43	35	36	27	22	17	72
103	5/5	M-16 live	200-430	T114	19	36	46	45	45	48	51	53	56	62	62	63	61	61	62	56	55	53	51	47	54	57	60	56	61	49	44	41	37	31	23	12	21	12	71
103	5/5	M-16 live	200-430	T114	26	30	45	41	48	50	54	56	60	63	63	64	60	59	66	54	57	52	51	50	54	61	67	63	66	47	51	43	46	35	27	21	17	71
103	5/5	M-16 live	200-430	T115	3		41	46	47	49	53	55	58	59	61	62	60	53	59	46	49	51	49	51	56	52	53	50	52	46	47	42	32	32	22	21	70
103	5/5	M-16 live	200-430	T115	12	36	43	43	47	50	54	59	62	62	62	63	60	60	63	53	52	51	52	50	57	56	56	50	53	45	45	36	30	30	24	12	70
103	5/5	M-16 live	200-430	T115	21	44	48	43	48	51	53	57	60	62	62	62	60	59	64	56	55	50	47	47	55	50	56	53	54	48	45	39	45	39	32	21	72
103	5/5	M-16 live	200-430	T116	3	39	45	43	45	52	54	56	59	60	61	63	59	60	63	53	53	51	55	53	57	55	60	52	56	53	47	40	40	33	37	24	22	73
103	5/5	M-16 live	200-430	T116	10	47	48	49	47	51	54	57	59	61	61	62	59	61	64	54	50	48	53	54	57	55	53	51	54	48	44	44	34	25	17	29	70
103	5/5	M-16 live	200-430	T116	19	42		48	49	47	51	54	57	59	60	63	59	60	68	55	55	54	60	60	67	58	63	50	60	54	58	40	48	44	25	37	77
103	5/5	M-16 live	200-430	T117	2	45	45	46	48	50	51	54	56	59	61	62	58	59	57	49	51	51	51	52	57	52	57	49	55	41	46	40	41	33	17	19	32	71
103	5/5	M-16 live	200-430	T117	12	44	40	45	46	49	53	55	58	59	61	61	60	58	59	48	50	49	50	50	56	52	53	50	52	46	45	34	33	31	12	70
103	5/5	M-16 live	200-430	T117	20	42	48	45	48	52	54	56	59	61	61	61	60	59	53	48	50	48	50	51	56	53	54	47	53	40	34	31	21	19	12	71

The following table is rotated 90° on the page. Each record shares the leading descriptors **103 | 5/5 | M-16 live | 200-430**, followed by a sample ID, a number, and a series of numeric values.

ID	N	Data series
T118	3	47 48 48 52 54 56 59 61 62 62 61 61 57 53 52 52 55 58 62 62 63 60 56 58 53 50 46 42 34 27 19 12 73
T118	11	41 46 47 48 47 52 56 57 60 62 63 60 60 54 54 53 52 59 59 62 64 65 66 61 61 60 55 53 50 44 36 28 23 74
T118	21	43 41 47 48 51 55 58 61 62 63 62 57 53 54 55 58 60 61 63 67 68 65 64 63 58 55 53 52 52 55 52 47 40 29 24 17 75
T119	3	36 50 47 46 45 51 55 58 63 63 62 53 55 58 60 63 65 63 63 62 65 66 60 58 56 51 51 48 44 37 28 18 19 73
T119	13	46 44 53 50 51 54 58 60 63 65 63 55 57 58 60 63 66 65 60 59 59 56 57 55 53 51 53 51 42 36 30 19 18 74
T119	17	36 48 41 47 49 51 54 58 59 58 53 47 54 50 53 56 59 60 60 58 60 58 53 47 41 45 46 46 34 34 12 67
T119	19	44 46 45 48 50 54 55 60 62 62 60 54 51 52 54 56 60 62 62 58 62 60 55 51 50 46 47 47 44 41 37 30 19 12 70
T119	22	38 48 48 46 40 48 50 54 59 61 62 58 50 48 46 45 50 54 56 58 57 53 46 42 45 40 45 40 35 36 31 18 15 68
T119	27	42 30 40 45 46 48 52 53 57 58 59 58 48 47 46 47 52 53 57 57 59 58 49 48 49 46 47 46 42 40 36 29 12 66
T120	4	36 37 50 47 50 53 57 59 62 63 63 60 57 59 56 56 58 59 59 62 61 62 64 61 62 61 58 52 50 41 32 18 23 74
T121	3	40 46 46 41 43 46 52 56 58 62 63 60 46 51 46 43 45 46 46 57 58 62 57 46 47 43 46 37 37 40 27 21 12 66
T121	13	43 48 44 50 54 57 60 62 62 60 48 50 48 50 54 60 62 62 60 58 62 59 55 51 49 48 42 36 31 27 24 19 70
T121	18	40 33 41 44 42 46 52 55 58 60 62 55 52 51 52 54 58 60 60 55 58 55 45 45 45 38 47 42 37 32 23 12 67
T121	25	33 44 33 41 49 52 55 58 57 59 57 54 48 53 51 54 57 59 59 57 61 59 54 44 41 41 38 36 34 23 24 18 68
T121	27	41 45 44 48 50 53 56 57 59 60 58 52 48 48 52 58 60 60 57 56 57 62 60 43 40 42 36 38 32 26 18 67
T122	2	40 30 46 41 43 49 51 54 56 58 60 57 49 48 48 48 57 59 59 56 58 57 54 44 43 42 35 36 29 22 12 67
T122	5	42 37 48 46 47 50 53 57 60 62 61 54 47 52 54 59 60 60 57 54 57 57 47 47 45 41 39 42 36 24 27 17 69
T123	2	49 47 47 49 50 53 57 60 60 60 54 53 45 52 53 57 59 60 59 59 59 56 53 46 49 46 43 41 33 29 23 18 20 68
T123	9	44 43 50 47 50 52 56 59 61 61 60 54 50 53 54 60 61 61 59 55 54 56 52 47 47 46 48 36 39 32 28 15 69
T123	14	45 47 45 48 50 52 56 58 61 60 59 53 47 50 53 56 60 60 59 55 56 53 42 46 47 40 42 36 32 27 15 69
T123	19	41 54 46 50 53 57 60 62 62 62 55 51 47 51 54 58 62 62 59 54 53 50 40 45 45 35 37 35 20 21 12 68
T123	22	33 46 46 53 56 59 62 63 61 57 52 53 49 54 59 60 60 59 59 62 63 62 53 47 48 44 41 41 31 26 17 71
T123	24	36 44 45 51 54 58 62 63 63 60 46 50 49 50 54 59 60 62 60 56 60 59 47 42 44 36 35 37 28 20 17 68
T124	1	41 33 52 47 47 50 53 56 59 62 63 60 54 53 53 53 58 58 63 64 65 61 60 53 52 48 48 47 42 41 28 26 17 66
T125	2	46 43 44 49 54 58 63 64 65 63 58 53 55 56 57 54 54 53 53 55 59 60 61 59 53 52 50 39 43 39 35 23 15 71
T125	14	44 45 46 52 55 60 63 64 61 59 52 50 48 51 56 60 61 59 55 56 59 61 60 41 39 37 34 36 33 25 17 73
T125	18	44 43 47 51 53 56 60 60 59 56 46 47 50 50 51 56 60 60 55 53 59 60 55 34 33 27 34 40 33 26 15 69
T125	20	46 33 45 39 0 40 36 55 60 61 62 60 53 50 51 51 54 57 60 58 62 60 56 46 49 45 44 44 38 35 25 19 68

103	5/5	M-16 live	200-430	Test	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
103	5/5	M-16 live	200-430	T125	24	36	33	45	42	45	50	54	56	60	60	61	62	59	55	50	50	48	46	47	49	49	48	46	43	41	37	26	27	15	17	17	12	70
103	5/5	M-16 live	200-430	T126	7	46	48	54	54	56	61	64	68	70	72	73	71	67	66	67	66	65	66	70	74	75	74	73	70	66	67	59	55	43	34	34	25	84
103	5/5	M-16 live	200-430	T126	12	36	46	44	48	49	54	56	60	61	62	61	59	56	52	52	52	49	50	52	63	62	58	57	52	50	50	43	40	32	26	21		72
103	5/5	M-16 live	200-430	T126	19	45	45	51	52	55	58	62	65	68	70	71	69	67	66	63	65	63	64	67	71	72	72	66	62	59	53	50	47	40	33	32	26	80
103	5/5	M-16 live	200-430	T126	23	33	41	45	45	48	53	56	60	61	62	60	57	51	55	53	52	50	51	52	56	57	55	51	53	49	46	42	37	15	12	12		71
103	5/5	M-16 live	200-430	T126	28	45	45	47	50	54	56	60	60	61	62	60	59	53	53	54	52	51	59	62	62	60	57	56	50	50	44	33	40	15	12			70
103	5/5	M-16 live	200-430	T127	5	51	51	53	55	57	59	62	65	68	69	68	67	65	61	61	62	62	63	66	70	71	72	71	72	69	66	64	63	47	45	42	36	84
103	5/5	M-16 live	200-430	T127	15	44	46	51	56	59	62	65	68	71	72	76	73	71	67	65	63	62	64	66	67	65	64	64	62	61	60	59	56	49	37	33	29	81
103	5/5	M-16 live	200-430	T127	17	42	48	56	60	63	66	69	71	71	73	71	67	65	61	60	56	53	56	62	62	66	64	62	61	60	56	54	46	42	15	12		69
103	5/5	M-16 live	200-430	T127	27	52	53	54	57	60	63	66	68	67	70	72	73	69	65	57	59	57	52	51	51	54	52	49	52	48	39	38	33	18	40	38	34	80
103	5/5	M-16 live	200-430	T128	4	53	53	57	55	54	60	63	66	69	70	67	63	62	61	60	62	61	62	64	66	66	64	62	61	59	59	53	49	34	30	27	12	81
103	5/5	M-16 live	200-430	T128	14	51	50	55	54	58	62	65	67	69	70	73	71	67	63	63	63	60	64	66	69	67	64	64	63	62	61	56	54	40	34	31	26	82
103	5/5	M-16 live	200-430	T128	26	55	55	56	56	60	63	66	69	71	71	76	72	66	68	62	58	58	61	62	67	69	66	62	62	60	59	52	56	37	36	32	27	83
103	5/5	M-16 live	200-430	T128	28	47	50	48	53	54	57	60	62	63	64	64	60	56	54	51	51	51	52	63	61	57	57	56	55	48	44	41	36	26	18	19		73
103	5/5	M-16 live	200-430	T129	4	50	51	54	55	55	60	63	66	69	71	72	70	66	64	62	62	61	62	64	66	69	72	68	64	59	57	49	52	34	34	31	26	82
103	5/5	M-16 live	200-430	T129	15	49	50	55	52	55	59	62	65	67	68	69	67	66	63	60	61	59	63	60	61	67	69	64	60	56	56	54	46	33	33	29	26	80
103	5/5	M-16 live	200-430	T130	8	53	50	59	56	58	62	65	67	72	74	73	71	66	62	64	63	62	66	67	69	71	72	68	62	60	62	60	49	36	39	33	31	84
103	5/5	M-16 live	200-430	T130	18	42	48	53	51	53	58	61	64	67	70	70	69	64	61	58	59	58	60	60	60	67	72	66	57	54	50	45	43	32	32	26	17	80
103	5/5	M-16 live	200-430	T130	24	49	48	56	56	60	62	65	70	70	72	72	74	71	62	59	58	55	60	59	61	69	69	65	59	57	54	45	41	26	34	28	18	81
103	5/5	M-16 live	200-430	T131	0	43	40	54	51	51	58	61	64	66	68	69	63	61	60	53	55	53	52	56	59	60	60	59	56	55	48	44	39	21	44	39	29	80
103	5/5	M-16 live	200-430	T131	8	51	49	55	52	55	65	67	69	71	72	71	67	64	64	62	61	59	61	64	66	67	68	64	63	61	61	52	48	37	45	43	38	82
103	5/5	M-16 live	200-430	T131	11	38	42	48	45	45	50	53	56	60	61	62	61	59	56	53	52	50	52	56	59	62	62	59	54	51	49	43	40	17	21	21		70
103	5/5	M-16 live	200-430	T131	19	50	49	53	50	55	58	62	64	68	69	70	69	65	62	60	59	58	61	61	62	69	66	62	59	59	54	50	45	20	25	25		78
103	5/5	M-16 live	200-430	T132	4	43	48	52	51	51	57	60	63	66	68	72	66	60	59	55	56	53	57	58	60	68	67	62	53	48	47	44	36	22	24	26		78
103	5/5	M-16 live	200-430	T132	9	33	33	52	50	48	53	54	59	60	61	63	59	53	52	51	55	53	56	58	60	60	59	56	52	47	39	33	31	17	21	23		71
103	5/5	M-16 live	200-430	T132	17	47	49	56	55	59	64	67	70	72	71	72	67	64	60	61	63	60	64	62	63	69	69	60	55	48	44	39	43	41	41	37	27	82
103	5/5	M-16 live	200-430	T133	6	40	43	50	53	57	56	59	60	61	61	62	59	56	53	51	54	52	54	56	56	59	61	58	50	45	43	36	26	17	17	12	12	69
103	5/5	M-16 live	200-430	T133	9	42	44	48	44	39	51	55	58	59	59	58	54	50	47	43	45	43	42	38	54	56	52	47	43	43	32	15	19	20	15			67
103	5/5	M-16 live	200-430	T133	12	39	41	37	42	47	49	53	56	57	58	56	52	50	48	44	42	40	38	36	36	31	31	24	17	22	17						17	65
103	5/5	M-16 live	200-430	T133	14	47	37	44	43	48	51	53	56	58	60	58	54	53	52	45	47	45	44	42	40	36	37	31	24	26	17	17	12			17	17	66
103	5/5	M-16 live	200-430	T133	19	45	30	44	49	50	53	56	58	62	63	64	58	54	52	49	51	48	49	51	52	58	61	60	51	51	47	43	41	37	22	24		71

103	5/5	M-16 live	200-430	T133	28	42	41	45	46	49	53	56	58	59	60	60	57	53	52	50	46	42	46	46	47	47	46	43	40	39	34	27	25	18			12	67
103	5/5	M-16 live	200-430	T134	1		36	44	43	48	50	52	56	59	60	61	62	60	56	53	51	44	45	45	45	44	45	45	42	38	37	31	20	21	15		18	68
103	5/5	M-16 live	200-430	T135	5	46	42	49	53	59	60	65	67	69	71	69	66	62	60	58	60	64	67	65	65	66	64	65	64	60	57	52	49	40	34	26	15	79
103	5/5	M-16 live	200-430	T135	16	44	43	50	52	56	59	62	66	68	69	68	63	59	57	56	59	59	63	59	59	58	56	60	60	57	55	52	46	40	33	23	12	77
103	5/5	M-16 live	200-430	T135	19		40	39	42	47	52	55	58	59	61	63	63	58	53	51	49	48	51	53	57	59	57	51	50	48	43	40	33	36	34	31	18	70
103	5/5	M-16 live	200-430	T136	3	36	46	43	46	53	59	64	64	64	64	67	66	64	62	56	56	62	67	68	66	67	67	66	62	60	64	55	47	41	32	26	26	78
103	5/5	M-16 live	200-430	T136	7	44	43	47	50	51	54	57	61	64	65	66	61	61	61	58	59	61	61	61	60	62	58	58	56	54	53	49	42	33	23	23	23	75
103	5/5	M-16 live	200-430	T136	20	42	48	52	55	56	61	64	67	69	71	72	70	67	65	62	62	64	66	65	66	61	65	62	59	60	64	50	44	35	23	27	15	81
103	5/5	M-16 live	200-430	T137	3	42		46	48	54	58	62	65	67	69	68	66	63	60	57	58	60	62	63	63	64	61	57	55	54	52	46	41	32	23	23	23	76
103	5/5	M-16 live	200-430	T137	7	36	41	50	51	53	56	59	63	66	67	69	69	64	64	61	57	58	61	65	66	67	64	60	59	56	51	46	40	31	21	25	25	77
103	5/5	M-16 live	200-430	T137	11		46	48	47	50	51	54	57	59	58	58	57	55	50	49	48	43	45	48	49	50	48	46	43	41	38	30	21	45	36	27	18	75
103	5/5	M-16 live	200-430	T137	24	47	48	52	56	58	61	63	66	71	73	73	72	70	66	62	62	66	67	69	72	73	64	63	61	58	56	49	39	32	40	33	21	82
103	5/5	M-16 live	200-430	T138	6	51	50	51	55	58	63	65	68	69	71	72	70	67	65	62	62	66	67	69	70	73	66	64	63	58	55	49	45	38	30	26		79
103	5/5	M-16 live	200-430	T138	18	46	48	48	53	55	56	61	65	65	67	67	69	64	61	58	58	64	66	69	70	67	64	64	61	59	53	43	24	31	19	21	21	77
103	5/5	M-16 live	200-430	T138	21	33	33	47	51	52	54	58	62	65	66	67	68	67	61	59	57	58	60	67	69	68	60	60	59	56	51	42	36	28	12	20	20	76
103	5/5	M-16 live	200-430	T139	2	39		46	46	42	43	43	53	58	60	61	62	60	56	53	50	48	49	51	59	61	62	59	56	53	50	43	38	21		17	17	69
103	5/5	M-16 live	200-430	T139	6	44	43	50	56	52	55	57	60	63	65	66	66	61	58	55	56	58	58	64	66	66	56	56	56	49	55	49	39	32	29	24	24	74
103	5/5	M-16 live	200-430	T139	20	46	49	52	55	55	59	62	65	69	72	73	73	70	64	61	59	61	67	72	73	73	64	61	58	56	54	52	44	50	43	42	37	83
103	5/5	M-16 live	200-430	T139	23	48	42	49	48	53	53	56	61	63	66	66	64	67	62	57	57	58	69	61	64	66	58	54	54	52	52	45	38	36	24	22	22	75
103	5/5	M-16 live	200-430	T140	2	49	48	48	51	54	58	61	64	66	69	70	64	67	59	56	56	57	58	57	69	70	66	60	60	58	59	52	52	31	19	23	23	77
103	5/5	M-16 live	200-430	T140	7	50	48	47	52	53	55	59	61	65	66	68	67	67	61	58	56	58	56	59	68	68	62	62	58	56	56	41	41	29	15	23	23	76
103	5/5	M-16 live	200-430	T140	11	40	40	43	41	45	48	52	55	59	59	61	60	62	56	57	57	59	60	62	61	62	51	51	49	49	48	47	36	17	12	17	17	69
103	5/5	M-16 live	200-430	T140	20	35	48	51	53	55	58	60	63	64	65	66	66	64	54	54	54	56	66	66	66	64	61	54	56	55	51	48	36	29	23	22	22	75
103	5/5	M-16 live	200-430	T140	23	43	40	48	49	51	58	61	64	65	67	67	63	66	63	60	61	54	66	64	63	56	60	57	54	52	52	45	34	26	34	34	15	74
103	5/5	M-16 live	200-430	T141	7	44	48	49	51	53	57	62	64	67	69	69	66	69	66	59	59	58	67	67	66	69	62	58	58	57	46	57	52	41		46	27	80
103	5/5	M-16 live	200-430	T142	2	38	36	45	46	48	50	54	57	59	59	60	56	58	60	44	39	42	48	42	59	58	59	45	44	41	30	24		12	12	24		66
103	5/5	M-16 live	200-430	T142	4	38	33	41	45	45	49	51	54	58	58	60	57	56	52	47	42	44	52	56	57	60	52	56	47	44	36	33	22	12		22	19	67
103	5/5	M-16 live	200-430	T142	9		39	44	43	49	51	54	57	59	60	60	57	54	49	43	40	41	43	44	49	60	57	54	44	49	30	35	30	21			18	67

103	5/5	M-16 live	200-430	T142	16	47	48	45	47	46	49	51	56	59	59	59	56	59	59	56	49	48	47	46	44	43	44	42	41	40	38	37	36	34	28	12			67
103	5/5	M-16 live	200-430	T142	18	48	49	48	46	47	49	50	51	55	56	55	53	49	49	48	48	47	47	45	42	40	43	40	40	41	35	35	30		22	12	12		64
103	5/5	M-16 live	200-430	T143	2	44	37	30	44	49	53	51	55	58	60	59	57	52	55	59	51	46	44	43	41	40	35	42	41	43	45	36	35	30	19	12	15		67
103	5/5	M-16 live	200-430	T143	6				43	43	47	48	51	55	58	59	57	55	58	58	43	41	45	41	40	41	40	41	42	41	35	35	29	24	15	15		67
103	5/5	M-16 live	200-430	T143	9	36	3		44	46	48	50	54	57	61	62	62	59	58	62	48	44	46	45	45	46	44	45	46	44	39	38	38	26	17	15	15		70
103	5/5	M-16 live	200-430	T144	5	44	40	50	51	52	56	59	63	65	67	68	69	62	63	58	55	56	59	55	59	60	63	63	66	60	56	41	44	40	32	23		24	77
103	5/5	M-16 live	200-430	T144	13	46	6		48	50	51	56	62	65	68	66	67	63	65	60	54	54	60	57	57	61	64	65	64	61	57	47	41	33	24	24	12	24	77
103	5/5	M-16 live	200-430	T144	20	42	40	47	46	52	53	58	60	66	70	64	62	59	61	57	54	52	57	56	58	63	68	66	66	62	58	48	42	35	27	18	18	26	77
103	5/5	M-16 live	200-430	T144	25	42	33	47	46	47	51	53	57	60	62	59	58	57	56	54	49	49	54	53	50	60	61	58	59	56	53	42	36	29	18		12	21	72
103	5/5	M-16 live	200-430	T145	4	42	39	42	49	53	55	57	60	63	66	63	62	59	59	58	56	55	59	55	57	66	69	65	66	60	58	49	44	39	29	23	24	24	78
103	5/5	M-16 live	200-430	T145	13			46	49	49	56	61	63	65	67	65	67	59	60	60	54	53	57	55	57	67	73	69	68	60	60	54	49	41	34	24	12	25	76
103	5/5	M-16 live	200-430	T145	16	3	44	43	45	42	51	54	55	58	60	62	62	61	59	57	54	52	53	53	54	60	62	64	63	59	57	51	48	40	31	24	19	27	73
103	5/5	M-16 live	200-430	T145	23	48	45	49	52	52	53	56	59	63	66	65	68	66	66	61	55	55	54	54	59	65	66	65	62	66	61	53	41	34	24	24	12	24	78
103	5/5	M-16 live	200-430	T146	3	47	45	48	49	53	57	60	63	65	66	63	65	63	63	60	59	58	59	58	56	63	65	60	58	59	57	51	41	35	24	24		23	75
103	5/5	M-16 live	200-430	T146	12	46	44	44	51	54	57	60	64	65	66	62	64	62	62	58	57	57	57	55	66	66	73	68	67	62	59	63	58	44	51	49	42	49	81
103	5/5	M-16 live	200-430	T146	21	45	47	48	47	54	58	60	64	65	66	61	64	59	59	57	55	53	55	57	57	60	62	60	61	56	46	39	41	33	19	24	12	21	75
103	5/5	M-16 live	200-430	T147	4	45	42	50	47	49	51	54	58	63	61	62	61	62	61	53	54	52	54	52	59	61	62	62	65	59	57	48	42	32	22	22	12	22	73
103	5/5	M-16 live	200-430	T147	13	50	48	52	52	53	59	62	65	68	68	65	68	66	63	58	59	60	58	58	62	65	67	68	73	69	66	61	56	53	47	44	40	44	82
103	5/5	M-16 live	200-430	T147	22	42	44	49	52	55	56	59	63	66	68	63	64	64	62	57	56	56	54	54	57	63	66	67	62	63	56	45	41	40	34	27	12	27	78
103	5/5	M-16 live	200-430	T148	2			39	42	46	49	52	55	58	61	63	64	65	64	54	50	51	52	54	51	55	58	54	56	50	51	41	36	28	20			19	72
103	5/5	M-16 live	200-430	T148	10	44		40	42	49	52	55	58	61	63	64	65	65	61	52	50	47	51	52	47	54	60	58	59	56	53	44	39	31	22	22	19	19	73
103	5/5	M-16 live	200-430	T148	19	39		41	45	49	50	56	59	63	64	65	65	64	61	52	52	45	47	46	44	51	53	53	52	46	49	39	34	26	12	12	19	24	72
103	5/5	M-16 live	200-430	T148	29	33	35	45	49	48	53	55	58	62	63	64	65	65	62	52	52	52	52	48	48	55	57	55	60	53	55	48	44	39	28	30	28	19	76
103	5/5	M-16 live	200-430	T149	3	54	52	54	50	52	54	56	59	63	64	65	65	64	63	52	52	47	52	52	49	54	51	52	53	49	49	40	45	39	30	12	24	24	76
103	5/5	M-16 live	200-430	T149	11	45	36	43	47	50	51	55	58	61	62	62	64	63	61	59	52	47	47	47	44	54	54	54	52	44	40	56	49	40	33	26	18	18	71
103	5/5	M-16 live	200-430	T149	22	43	47	45	46	53	56	58	61	62	63	63	62	62	59	59	53	52	53	47	59	62	59	70	66	42	43	56	55	51	47	44	51	44	78
103	5/5	M-16 live	200-430	T150	2	39		42	40	35	42	47	52	56	61	62	61	59	56	54	47	43	46	52	41	42	41	41	40	40	38	34	24	18	22	18	15	15	70
103	5/5	M-16 live	200-430	T150	4		33	42	42	40	49	51	54	58	59	58	56	54	49	50	39	46	39	39	43	43	44	43	39	36	35	32	22	18	18	22	15		66
103	5/5	M-16 live	200-430	T150	7		33	39	36	38	37	50	56	58	58	59	58	55	50	47	44	39	39	39	36	38	39	39	38	35	38	35	24	24	22	24			66
103	5/5	M-16 live	200-430	T150	9		37	37	0	43	40	51	56	57	58	57	58	54	50	48	41	40	40	40	35	36	39	39	35	36	31	15	21	18	12			19	65
103	5/5	M-16 live	200-430	T150	12	40	30	30	35	46	52	54	58	59	60	59	57	54	54	48	43	41	41	40	40	42	44	45	47	42	45	40	32	24	40	24			67

103	5/5	M-16 live	200-430	T150	16	36		39	42	46	47	51	55	57	58	58	56	53	48	44	42	43	42	39	45	43	40	40	35	36	32	18	19	12			66
103	5/5	M-16 live	200-430	T150	20			37	41	45	49	50	55	58	59	60	58	55	50	45	41	39	39	39	44	41	39	39	48	49	43	41	32	25			67
103	5/5	M-16 live	200-430	T151	1				43	45	48	52	55	58	59	60	60	56	53	51	45	48	47	47	48	45	44	43	39	38	35	25	24		15	68
103	5/5	M-16 live	200-430	T151	4			33	44	45	49	52	55	57	59	60	59	53	50	48	43	42	43	43	45	44	41	41	42	44	36	29	27	19		67
103	5/5	M-16 live	200-430	T151	10		40	45	44	44	49	53	56	59	62	62	63	58	54	53	46	45	44	42	44	46	45	45	53	47	51	35	32	21		70
103	5/5	M-16 live	200-430	T152	4	45	44	44	48	51	53	57	59	62	63	64	64	59	56	52	48	49	46	46	46	49	46	45	42	41	37	17	26	19	21	71
103	5/5	M-16 live	200-430	T152	8	39	42	43	44	49	52	55	58	59	60	60	60	55	51	46	44	44	43	42	39	45	42	41	37	36	30	12	24	12	20	67
103	5/5	M-16 live	200-430	T152	10	45	44	42	45	46	51	54	55	58	59	59	59	55	49	45	42	43	40	39	41	43	45	39	35	36	29	15	24	18		67
103	5/5	M-16 live	200-430	T152	13	38	39	44	49	51	54	57	61	61	62	62	61	57	52	50	46	47	46	45	45	45	45	43	39	39	32	12	22	18		70
103	5/5	M-16 live	200-430	T152	16	42	42	43	43	53	50	58	61	61	63	62	61	53	53	45	46	46	41	42	38	45	42	41	38	37	31		23	15		70
103	5/5	M-16 live	200-430	T153	20	33	37	40	42	48	52	53	57	57	57	57	57	53	46	42	42	45	42	42	38	44	44	39	36	36	30	12	24	12		65
103	5/5	M-16 live	200-430	T154	2	38	33	44	47	45	49	51	53	58	59	59	59	55	52	52	48	44	46	44	42	45	46	43	39	39	33	17	25	18		67
103	5/5	M-16 live	200-430	T154	2	36		42	42	44	47	51	53	56	58	58	58	56	50	50	45	46	46	44	39	45	43	43	40	35	29		18	12		66
103	5/5	M-16 live	200-430	T154	10	44	45	41	44	45	47	52	54	57	57	59	60	57	53	49	46	46	43	41	41	46	42	40	41	35	30	15	20	17		67
103	5/5	M-16 live	200-430	T154	23	59	61	59	55	54	51	52	53	56	57	56	57	54	48	47	46	46	43	41	41	44	43	37	25	33	28	17	25	17		68
103	5/5	M-16 live	200-430	T155	2	46	39	41	48	49	52	55	58	61	62	63	63	58	56	52	52	50	50	46	45	45	48	45	39	39	34	23	25	18	17	70
103	5/5	M-16 live	200-430	T155	12	38	36	49	45	55	53	59	56	60	61	60	60	55	51	52	46	50	46	43	42	45	44	45	37	38	33	12	28	22	15	69
103	5/5	M-16 live	200-430	T155	16	46	44	45	30	38	49	56	49	56	59	59	59	50	50	45	46	46	43	42	39	44	42	39	34	34	31	15	23	12	15	66
103	5/5	M-16 live	200-430	T155	21	45	33	44	47	52	54	57	59	60	61	60	61	52	48	45	48	45	46	43	45	44	49	45	39	37	32	17	23	19	12	68
103	5/5	M-16 live	200-430	T156	25	46		49	48	52	55	57	61	62	63	63	62	57	56	54	52	49	51	48	48	45	46	46	48	40	40	35	19	27	22	15	70
103	5/5	M-16 live	200-430	T157	2	43	43	45	48	55	50	55	55	56	57	56	56	53	49	47	48	46	41	41	41	43	42	41	36	36	30	12	21	18	17	65
103	5/5	M-16 live	200-430	T157	3	47	48	50	54	58	63	66	66	67	69	67	65	65	62	61	62	64	61	64	69	72	75	75	74	68	62	61	56	53	43	48	83
103	5/5	M-16 live	200-430	T157	15	43	33	48	51	53	55	59	62	65	65	66	67	63	60	54	58	53	55	56	55	58	61	64	62	56	52	45	41	36	23	24	76
103	5/5	M-16 live	200-430	T157	25	42	48	48	43	51	55	60	65	65	66	68	63	62	60	54	58	53	56	59	56	62	63	61	60	57	55	48	43	36	24	27	76
103	5/5	M-16 live	200-430	T158	3	44	47	48	52	54	57	60	63	65	67	64	59	59	58	55	58	50	50	52	51	56	59	58	56	52	50	43	39	31	20	15	74
103	5/5	M-16 live	200-430	T158	15		43	42	47	49	53	56	58	61	64	60	56	56	52	48	52	45	46	41	41	52	51	47	40	44	31	28	21	18	15	71
103	5/5	M-16 live	200-430	T158	19	40	42	43	45	48	53	54	59	60	60	60	59	52	54	49	49	45	45	50	45	54	55	57	51	47	36	31	36	31	21	18	70
103	5/5	M-16 live	200-430	T158	30	47	44	50	49	50	54	57	60	63	65	66	66	59	56	56	54	50	52	54	52	55	56	55	52	49	45	37	34	27	18	12	74

				Target	N																																	
103	5/6	M-16 live	200-430	T160	3	49	55	45	45	42	36	45	48	51	54	54	53	53	52	52	53	55	60	64	67	68	66	65	63	60	57	52	47	42	34	28	13	74
103	5/6	M-16 live	200-430	T160	10	56	54	52	53	51	51	49	48	47	45	46	49	53	57	55	53	57	61	65	69	71	73	78	80	78	75	72	69	68	65	61	55	86
103	5/6	M-16 live	200-430	T160	16	45	34	49	43	7	46	44	44	51	54	56	55	53	54	53	54	55	59	62	64	66	66	63	63	59	56	52	46	40	29	27	13	73
103	5/6	M-16 live	200-430	T160	26	53	52	51	50	49	48	46	50	52	54	56	57	56	57	57	60	64	68	70	72	75	78	77	80	77	76	70	66	64	61	57	53	86
103	5/6	M-16 live	200-430	T161	6	41		31	44	41	49	51	53	54	55	56	57	57	55	55	55	55	59	60	62	64	66	66	65	62	55	51	46	39	27	29	29	74
103	5/6	M-16 live	200-430	T161	18	43		46	43	43	43	42	42	43	51	56	57	58	55	55	55	55	58	60	62	65	66	67	66	63	58	53	48	41	30	28	13	75
103	5/6	M-16 live	200-430	T162	3	44	45	42	31	42	43	32	47	50	51	54	54	53	55	54	52	54	55	58	60	62	65	64	62	60	55	51	45	39	28	25	16	72
103	5/6	M-16 live	200-430	T162	6	49	37	48	48	32	40	40	37	45	46	47	50	50	51	52	50	51	53	55	56	58	60	60	58	56	51	47	42	35	26	22		69
103	5/6	M-16 live	200-430	T162	16	52	51	53	50	43	44	43	45	49	52	56	56	54	56	56	59	59	65	69	72	74	77	77	74	72	68	66	62	56	56	56	52	84
103	5/6	M-16 live	200-430	T162	27	47		40	41	28	44	43	42	49	51	55	55	53	56	55	55	55	59	60	62	66	68	67	65	62	60	54	49	44	35	29	20	75
103	5/6	M-16 live	200-430	T163	5	46		43	43		46	42	43	51	53	55	56	54	56	55	56	56	63	63	66	68	68	67	64	61	57	49	44	41	32	28		75
103	5/6	M-16 live	200-430	T163	14	41	44	42	41		42	41	35	47	49	51	52	50	51	49	52	52	60	60	63	63	63	61	58	57	56	53	44	41	29	25	16	70
103	5/6	M-16 live	200-430	T163	17	47	3	42	38	3	34	36	34	47	46	50	48	50	52	51	51	52	60	60	62	63	63	60	59	56	53	50	44	38	27	23		71
103	5/6	M-16 live	200-430	T164	8	58	55	55	56	55	51	53	51	48	53	54	56	59	60	62	62	67	71	75	80	80	80	81	77	75	72	66	61	59	54	61	56	87
103	5/6	M-16 live	200-430	T164	18	47	47	49	47	41	45	47	40	52	54	56	57	56	58	58	59	59	67	66	71	73	77	76	75	70	66	60	59	54	50	50	49	83
103	5/6	M-16 live	200-430	T164	25	41		46	45	45	44	40	52	55	55	57	58	57	57	55	57	57	64	61	64	67	68	67	64	61	55	51	47	39	29	27		75
103	5/6	M-16 live	200-430	T165	9	56	54	55	52	51	51	52	49	53	55	60	60	60	60	60	61	61	68	72	75	80	80	80	78	75	72	68	61	57	43	63	56	88
103	5/6	M-16 live	200-430	T165	21	31	48	45		47	39	41	37	52	54	57	57	55	57	56	56	57	66	67	69	70	67	66	65	64	60	57	52	46	39	30	27	13	74
103	5/6	M-16 live	200-430	T166	4	41	35	41	35	42	41	35	46	51	53	53	53	52	55	55	53	55	66	64	65	66	66	64	63	59	55	47	46	39	30	25		73
103	5/6	M-16 live	200-430	T166	16	6	38	43		45	42	44	50	52	54	54	52	51	56	56	57	60	64	66	69	72	73	72	69	64	60	53	47	40	32	32	20	80
103	5/6	M-16 live	200-430	T167	3	51	49	49	46	44	41	42	48	47	52	55	53	52	57	58	61	64	66	70	72	70	68	65	60	57	55	49	47	39	30	30		77
103	5/6	M-16 live	200-430	T167	17	40	43	49	43	46	44	39	47	45	51	53	50	51	54	53	54	58	62	63	66	68	68	63	62	58	54	45	37	27	27	25		74
103	5/6	M-16 live	200-430	T167	30	50	41	48	44	40	45	50	50	52	56	60	60	60	55	55	55	63	65	67	69	69	72	65	62	57	52	52	43	34	29	34	29	79
103	5/6	M-16 live	200-430	T168	4	54	52	52	46	31	42	44	37	49	47	52	52	53	53	54	52	57	62	66	69	70	70	69	66	60	57	51	45	37	27	27	17	77
103	5/6	M-16 live	200-430	T168	9	42	47	48	43	35	45	42	48	47	46	46	47	49	50	48	50	52	55	59	62	63	64	62	59	55	51	42	42	35	23	25	13	71
103	5/6	M-16 live	200-430	T168	25	57	57	55	51	44	49	47	45	52	53	56	55	50	55	53	55	54	63	65	66	67	67	60	63	59	57	52	47	41	29	27	13	75
103	5/6	M-16 live	200-430	T168	27	43	47	37	42		42	42	43	42	46	46	42	40	53	53	53	53	57	57	55	55	58	55	53	51	47	47	36	28	17	19		65
103	5/6	M-16 live	200-430	T169	7	57	58	55	55	51	48	45	39	50	51	53	53	52	54	52	53	54	62	64	65	66	68	68	65	60	57	52	46	39	43	31	20	78
103	5/6	M-16 live	200-430	T169	16	47	40	46	40	3	41	38	36	44	43	42	47	49	46	46	46	52	62	64	66	66	62	63	59	56	50	46	44	37	28	28		74
103	5/6	M-16 live	200-430	T170	4	49	48	52	43	34	41	38	46	47	50	52	49	50	53	53	52	51	57	59	62	62	66	63	61	59	56	53	43	36	27	27	17	73
103	5/6	M-16 live	200-430	T170	8	37	41	41		39	36	42	35	29	41	42	38	39	39	42	41	44	49	52	55	57	57	59	55	52	52	46	41	37	27	23		66

103	5/6	M-16 live	200-430	T170	18			34	39	43	46	45	46	49	48	49	48	45	44	47	47	52	55	57	59	60	61	57	53	50	46	40	33	21	22		67
103	5/6	M-16 live	200-430	T171	7	54	54	49	49	47	51	52	53	54	55	55	54	54	54	57	59	64	70	72	74	75	75	74	68	66	64	60	57	52	45	41	82
103	5/6	M-16 live	200-430	T171	9	47	46	52	44	35	43	44	44	43	44	46	44	45	44	48	48	53	56	58	60	60	59	57	54	51	49	45	39	31	25		68
103	5/6	M-16 live	200-430	T171	18	52	49	48	41	38	43	47	46	48	49	50	49	49	47	48	49	53	58	60	61	61	60	59	56	54	51	47	42	34	26	13	69
103	5/6	M-16 live	200-430	T171	22	47	44	5	43	41	47	49	49	53	52	54	53	53	52	51	51	55	60	60	61	61	60	58	56	52	47	39	32	17	22		70
103	5/6	M-16 live	200-430	T171	25	34		35	40	34	40	40	43	46	46	46	45	45	46	48	46	49	53	54	57	57	57	55	51	47	41	35	29	19	19		65
103	5/6	M-16 live	200-430	T171	27	42	48	40	36	34	36	40	43	40	43	44	44	45	41	43	43	45	53	56	57	56	57	54	51	47	43	37	32	23	17		65
103	5/6	M-16 live	200-430	T172	6	51	49	49	45	47	51	51	52	56	56	55	57	56	56	58	61	66	71	71	71	69	70	69	65	62	58	56	50	41	33	22	79
103	5/6	M-16 live	200-430	T172	9	49	49	56	43	35	44	44	47	45	48	47	47	46	46	47	48	50	55	57	60	60	60	56	53	51	49	43	37	25	20		67
103	5/6	M-16 live	200-430	T172	21	56	56	51	52	52	52	52	51	54	52	54	55	56	55	57	64	69	76	79	80	79	78	72	72	72	68	67	65	64	58	52	86
103	5/6	M-16 live	200-430	T172	24	43		3	39	31	41	41	43	45	44	46	46	47	47	51	54	58	64	65	64	62	62	62	58	56	54	52	47	41	30		72
103	5/6	M-16 live	200-430	T173	4	41	48	45	42	43	50	50	53	55	55	57	56	56	57	56	59	64	69	72	74	74	73	70	65	63	60	56	51	45	35	25	81
103	5/6	M-16 live	200-430	T173	16	49	46	31	42	42	53	53	55	59	58	57	59	59	60	61	62	66	70	74	75	76	74	69	68	67	62	62	58	56	54	16	82
103	5/6	M-16 live	200-430	T173	25	51	49	46	48	48	55	54	54	57	57	55	55	56	55	57	62	67	73	76	78	78	79	78	74	70	71	67	66	61	59	53	86
103	5/6	M-16 live	200-430	T174	4	43	42	45	45	45	46	45	54	55	55	55	54	54	53	52	55	60	64	66	67	67	65	64	61	57	52	47	39	30	28	17	74
103	5/6	M-16 live	200-430	T174	17	48	46	42	40	41	41	44	51	54	54	55	54	53	50	51	52	57	64	64	64	65	64	62	58	54	49	44	36	25	26	16	72
103	5/6	M-16 live	200-430	T175	4	37	37	39	47	46	51	50	53	54	56	57	54	53	54	52	53	58	62	63	65	65	65	62	59	55	51	45	38	27	27	16	73
103	5/6	M-16 live	200-430	T175	6	41	41	31	42	42	47	44	46	49	49	49	48	44	46	45	44	49	53	55	55	57	57	55	50	47	42	36	30	16	13		65
103	5/6	M-16 live	200-430	T175	16	50	49	54	41	34	53	53	56	58	58	58	58	58	59	60	64	69	74	78	79	79	80	77	71	70	70	67	64	61	59	56	86
103	5/6	M-16 live	200-430	T175	28	53	50	48	44	43	52	53	55	57	57	56	56	56	55	55	56	61	66	70	70	70	69	68	64	60	57	51	46	36	30	13	78
103	5/6	M-16 live	200-430	T176	6	47	43	44	32	47	54	50	54	56	55	56	55	55	54	54	55	60	63	64	66	67	65	63	59	56	51	45	38	26	28	22	74
103	5/6	M-16 live	200-430	T176	19	50	52	48	44	42	50	51	58	56	56	57	55	56	56	54	56	61	64	66	67	67	67	64	61	57	52	47	39	26	29	37	75
103	5/6	M-16 live	200-430	T177	8	57	55	47	49	53	55	57	58	62	60	60	63	63	63	64	66	72	76	79	81	81	78	77	74	72	68	66	63	60	58	53	88
103	5/6	M-16 live	200-430	T177	17			44	47	48	49	48	49	54	52	54	52	52	52	50	53	58	61	63	64	64	63	63	59	54	50	44	38	29	25		72
103	5/6	M-16 live	200-430	T177	23	44	42	35	48	45	51	56	54	56	57	56	56	55	55	54	55	60	65	66	66	67	67	65	61	56	52	46	38	28	28	41	75
103	5/6	M-16 live	200-430	T178	9	50	54	52	45	48	52	52	58	60	60	60	60	60	60	61	64	70	75	77	78	77	76	75	70	68	65	61	58	58	53	30	85
103	5/6	M-16 live	200-430	T178	21	54	45	51	47	47	51	52	55	57	57	57	56	56	56	56	56	60	66	67	69	71	76	73	67	64	63	58	49	42	35	31	80
103	5/6	M-16 live	200-430	T179	5	53	52	51	48	47	51	52	54	57	58	56	57	57	57	58	61	66	69	71	69	67	71	72	68	63	59	55	50	48	42	31	79

103	5/6	M-16 live	200-430	T179	18	58	55	53	53	52	51	50	47	52	54	56	59	59	59	59	58	59	59	60	65	72	76	81	81	82	81	78	74	72	72	70	69	65	62	58	89
103	5/6	M-16 live	200-430	T180	5	52	53	52	51	51	51	53	52	55	55	57	60	62	61	60	60	60	59	62	64	67	72	75	77	77	75	74	71	67	65	61	57	50	44	43	84
103	5/6	M-16 live	200-430	T180	17	45	43	42	41		42	42	48	49	52	44	49	51	52	49	51	51	52	51	55	59	60	62	62	62	60	56	55	52	51	47	41	33	16	23	70
103	5/6	M-16 live	200-430	T180	19	47	41	44	43	41	37	36	39	42	42	44	48	46	48	48	48	46	49	45	48	54	59	61	64	66	66	67	66	61	57	56	55	47	36	20	74
103	5/6	M-16 live	200-430	T181	5	46	49	49	46	39	41	41	40	50	51	55	54	52	51	52	52	55	56	53	57	62	62	64	67	66	67	66	64	60	56	53	48	42	34	25	74
103	5/6	M-16 live	200-430	T181	18	59	56	56	52	51	50	51	50	55	55	56	58	60	60	59	58	58	59	58	60	64	66	76	83	83	83	84	84	76	71	75	78	74	55	63	92
103	5/6	M-16 live	200-430	T182	7			46	41	45	38	47	50	52	53	54	54	53	53	54	54	53	54	55	57	60	65	67	70	68	70	64	63	60	57	54	47	41	30	13	79
103	5/6	M-16 live	200-430	T182	10	43			31	39	43	46	38	47	50	49	46	46	44	49	53	55	53	48	51	56	57	58	62	60	60	64	59	57	52	48	43	36	26	24	13	68
103	5/6	M-16 live	200-430	T182	21	47	5	46	42	45	44	34	49	51	51	52	54	53	55	55	54	54	53	55	60	65	66	68	66	68	66	64	57	55	60	53	48	41	32	27	16	76
103	5/6	M-16 live	200-430	T182	26	41		45	44	41	44	41	48	51	48	53	54	53	52	56	56	56	58	56	58	63	66	64	60	64	64	63	58	52	56	52	47	41	33	28	17	73
103	5/6	M-16 live	200-430	T183	3	49	53	52	50	50	48	46	49	50	52	54	54	53	53	54	54	54	54	55	58	65	73	76	76	76	76	70	73	72	66	67	60	57	58	56	52	83
103	5/6	M-16 live	200-430	T183	6	47	47	47	44	43	45	42	46	45	49	53	51	51	53	51	53	54	51	54	57	62	68	74	76	76	63	60	66	62	57	63	57	52	47	47	47	82
103	5/6	M-16 live	200-430	T183	19		46	42		45	43	42	42	46	45	52	56	48	50	51	50	53	54	51	57	62	60	62	63	62	60	60	55	56	45	40	32	35	19	24	13	70
103	5/6	M-16 live	200-430	T184	4	50	46	48	39	31	42	42	32	52	51	54	57	58	57	58	57	58	58	58	58	73	72	76	76	78	75	75	73	66	67	49	44	32	60	29	17	75
103	5/6	M-16 live	200-430	T184	6	52	51	52	49	51	47	48	48	48	50	53	55	56	55	55	53	52	53	53	51	66	64	66	76	75	70	70	73	66	63	57	62	54	52	55	52	84
103	5/6	M-16 live	200-430	T184	22	53	50	49	50	48	48	47	46	52	50	56	55	57	57	58	55	57	58	58	58	67	72	74	77	76	72	69	69	64	58	60	59	54	46	41	41	83
103	5/6	M-16 live	200-430	T185	5	37		44	41	44	39	42	44	53	50	52	55	55	54	55	52	55	55	56	56	61	66	62	63	71	70	70	59	59	61	59	53	46	37	25	13	79
103	5/6	M-16 live	200-430	T185	8	50	48	49	46	45	44	44	47	49	51	52	52	56	44	41	52	56	56	57	52	66	64	70	73	75	68	65	66	61	62	59	61	55	49	46	13	83
103	5/6	M-16 live	200-430	T185	24	41		45	41	43	43	45	45	51	52	54	57	56	56	57	55	50	57	55	56	63	66	68	70	73	74	68	63	58	61	50	54	48	41	31	13	77
103	5/6	M-16 live	200-430	T186	4	46	50	50	47	47	47	47	50	51	52	53	53	55	52	54	56	57	57	57	57	67	72	64	72	78	76	72	67	64	64	51	57	53	46	57	53	82
103	5/6	M-16 live	200-430	T186	8	40		40	41	44	42	39	48	49	49	52	52	53	53	54	56	58	53	60	64	60	64	66	67	67	66	67	60	58	55	49	55	35	30	19	78
103	5/6	M-16 live	200-430	T187	4	43	38	44	44	45	45	42	48	49	50	50	52	54	54	53	53	53	54	52	55	58	61	65	65	65	64	64	62	57	58	44	44	27	39	28		73
103	5/6	M-16 live	200-430	T187	15	41	43	43	44	45	45	45	46	50	50	52	55	55	55	56	56	55	55	55	55	60	62	65	65	66	65	64	57	53	48	42	39	25	36	27	13	73
103	5/6	M-16 live	200-430	T187	17	41	38	38	31	38	29	41	40	42	50	53	43	44	41	44	44	44	41	44	59	57	57	48	50	59	63	54	55	50	46	41	34	26	34	22	13	66
103	5/6	M-16 live	200-430	T187	27	57	54	54	53	53	50	47	52	53	55	58	57	58	57	57	58	58	58	58	58	70	74	82	82	81	78	78	78	73	70	76	74	73	74	67	62	91
103	5/6	M-16 live	200-430	T188	7	42	6	42	35	6	45	44	40	51	52	53	56	55	57	55	56	57	55	56	60	60	63	68	68	67	65	62	63	57	51	41	46	37	47	30	22	75
103	5/6	M-16 live	200-430	T188	18	43	49	47	46	44	45	45	41	52	54	54	53	56	55	55	53	54	55	56	60	73	72	74	73	74	70	72	67	58	56	56	53	56	59	48	44	83
103	5/6	M-16 live	200-430	T188	21	37		42	34	32	41	38	28	46	48	49	51	50	50	51	50	53	51	57	49	54	57	59	59	57	57	58	58	55	51	37	41	19	38	23		67
103	5/6	M-16 live	200-430	T189	6	45		44	43	43	43	44	49	51	52	54	54	56	54	51	51	51	54	54	52	57	58	62	63	60	62	60	56	53	46	41	37	20	37	25	21	70
103	5/6	M-16 live	200-430	T189	18	56	56	53	53	51	50	50	51	52	54	56	56	55	56	56	55	55	56	56	58	70	73	80	80	77	78	78	73	70	71	66	64	59	64	56	52	86
103	5/6	M-16 live	200-430	T189	27	42	43		44	42	49	45	49	51	52	54	54	54	53	54	53	52	52	54	54	58	61	64	62	63	58	57	57	54	49	54	44	38	27	24	24	72

103	5/6	M-16 live	200-430	ID																																
103	5/6	M-16 live	200-430	T190	5	44	44	43	44	41	49	50	52	52	52	52	52	54	51	51	52	56	59	60	61	62	61	58	55	51	45	40	32	19	26	19	70
103	5/6	M-16 live	200-430	T190	16	46	34	31	34	45	42	48	50	52	55	53	52	51	53	53	55	59	63	66	68	72	70	65	61	63	57	52	50	46	39	28	77
103	5/6	M-16 live	200-430	T190	18	37	39	39	37	37	36	45	45	46	52	47	45	44	44	44	46	52	54	55	57	58	57	56	51	48	43	38	31	20	20		65
103	5/6	M-16 live	200-430	T191	6	44	44	41	44	46	39	50	52	53	55	53	57	57	55	57	61	65	69	72	72	72	71	69	65	63	58	55	51	44	36	32	79
103	5/6	M-16 live	200-430	T191	19	45	46	39	47	47	41	49	49	53	54	53	53	53	53	53	55	59	63	65	67	68	68	65	61	58	54	50	42	34	28		75
103	5/6	M-16 live	200-430	T191	24	37	34	34	38	28	28	41	39	44	46	45	43	41	41	45	45	51	57	60	63	64	64	60	56	53	48	44	38	30	26	13	70
103	5/6	M-16 live	200-430	T192	5	44	42	42	37	43	39	48	48	53	54	52	53	54	53	54	58	61	65	68	69	68	66	65	61	58	54	49	43	37	30	24	76
103	5/6	M-16 live	200-430	T192	8	52	50	49	49	48	48	49	50	57	60	58	53	55	55	57	60	64	71	75	76	76	76	71	67	65	62	59	58	55	54	53	82
103	5/6	M-16 live	200-430	T192	20	43	44	39	43	44	43	49	49	53	52	50	52	52	52	52	53	58	60	61	62	63	62	59	55	52	46	40	33	17	25		71
103	5/6	M-16 live	200-430	T193	6	42	44	39	42	40	40	45	50	54	54	52	54	54	52	52	55	60	63	65	67	68	65	60	59	55	50	46	39	32	27	24	74
103	5/6	M-16 live	200-430	T193	18	58	58	55	58	55	53	56	57	58	58	58	57	58	63	67	69	74	78	82	85	85	85	85	83	79	78	78	76	76	74	66	93
103	5/6	M-16 live	200-430	T194	6	46	44	43	46	47	45	51	53	57	57	56	56	57	58	60	62	67	71	74	76	76	75	72	68	65	62	58	55	50	40	41	83
103	5/6	M-16 live	200-430	T194	20	49	47	42	49	35	48	46	52	56	58	57	57	57	56	57	59	64	68	69	71	72	74	70	68	63	56	52	44	43	37	28	80
103	5/6	M-16 live	200-430	T195	7	57	57	53	57	57	50	55	53	57	58	58	60	58	58	59	60	65	76	76	76	77	79	78	76	72	70	68	64	63	60	56	85
103	5/6	M-16 live	200-430	T195	21	58	57	54	58	52	52	57	56	59	60	58	58	60	61	64	67	71	75	78	82	82	83	82	81	77	76	75	74	72	67	60	91
103	5/6	M-16 live	200-430	T196	5	46	42	45	46	47	46	52	52	57	58	57	59	58	56	58	59	64	69	69	70	71	71	69	64	60	55	50	45	38	31	26	79
103	5/6	M-16 live	200-430	T196	13	46	8	45	46	48	47	52	52	58	58	58	60	57	56	58	60	66	70	70	70	71	72	68	63	61	56	51	45	38	32	20	79
103	5/6	M-16 live	200-430	T196	27	44	47	44	44	47	47	55	53	59	59	59	59	60	60	61	63	67	72	69	69	74	74	69	66	63	60	57	52	42	35	24	82
103	5/6	M-16 live	200-430	T197	9	59	57	55	59	55	53	55	56	58	58	58	57	59	60	62	65	69	73	78	79	81	82	81	80	78	76	76	73	73	66	16	89
103	5/6	M-16 live	200-430	T197	22	48	38	44	48	35	42	51	55	53	55	53	55	57	55	56	57	61	67	68	69	70	68	65	62	57	53	47	41	31	29	60	77
103	5/6	M-16 live	200-430	T198	12	46	9	47	48	47	46	52	54	54	56	58	57	59	58	60	60	65	71	72	75	76	75	73	69	65	63	59	58	51	44	17	82
103	5/6	M-16 live	200-430	T198	24	49	50	50	48	46	44	54	52	55	54	58	57	57	57	54	55	61	69	66	72	75	74	73	70	66	61	59	54	50	45	46	83
103	5/6	M-16 live	200-430	T198	27	34	34	37	31	43	43	47	46	51	50	53	50	50	50	52	53	58	62	65	67	67	65	62	57	53	51	45	38	30	28	40	75
103	5/6	M-16 live	200-430	T199	3	61	60	58	61	55	47	50	55	58	62	66	62	60	60	62	66	72	76	79	81	81	82	81	79	75	75	74	72	70	65	16	90
103	5/6	M-16 live	200-430	T199	13	43	46	43	43	42	44	54	53	55	56	54	55	56	55	57	58	64	71	73	76	77	76	72	67	66	63	59	52	42	34	60	83
103	5/6	M-16 live	200-430	T199	25	43	50	50	46	38	48	54	54	55	55	55	54	56	58	60	62	67	74	77	79	77	75	73	69	66	64	57	51	43	39	24	84
103	5/6	M-16 live	200-430	T200	6	52	49	49	52	48	48	50	52	57	58	55	56	54	57	59	57	62	68	74	78	80	81	76	71	68	65	62	56	52	47	46	87
103	5/6	M-16 live	200-430	T200	10	50	48	47	50	43	43	48	50	52	52	50	52	50	50	52	50	57	64	70	74	74	73	71	64	66	60	60	52	52	46	44	81

103	5/6	M-16 live	200-430	T200	20	43	38	46	44	41	35	0	44	38	0	37	44	0	39	39	40	49	52	59	57	63	60	61	55	47	41	37	32	21	25	23	23		68
103	5/6	M-16 live	200-430	T200	4	49	51	44	45	40	46	45	44	49	51	58	58	59	59	59	58	58	62	68	73	77	79	76	77	75	70	67	64	62	58	53	47	44	47	85
103	5/6	M-16 live	200-430	T201	15	47	34	48	46	45	44	45	53	54	56	59	59	60	59	59	59	59	64	70	72	76	76	77	76	73	69	64	62	60	56	53	47	40	35	40	84
103	5/6	M-16 live	200-430	T201	27	50	47	50	48	46	47	48	52	53	55	56	58	58	58	58	58	58	62	65	69	70	73	78	78	77	75	77	75	70	65	62	59	55	52	55	85
103	5/6	M-16 live	200-430	T202	6	38		42	40	42	40		55	57	59	64	67	68	67	64	58	57	59	62	65	62	68	67	67	65	58	55	48	42	39	33	30	23	30	76
103	5/6	M-16 live	200-430	T202	19	49		45	43	50	42	52	55	57	59	65	68	69	68	65	59	57	59	63	66	63	69	70	69	66	58	53	46	40	39	28	29	16	28	78
103	5/6	M-16 live	200-430	T203	8	46		45	44	51	46	45	55	57	60	66	69	71	71	69	58	58	60	66	68	65	72	74	73	69	61	57	52	47	40	43	32	24	40	80
103	5/6	M-16 live	200-430	T203	17	46		46	43	47	47	47	57	59	63	68	73	74	76	72	61	60	63	68	72	69	74	76	76	74	61	55	49	42	47	43	34	25	43	83
103	5/6	M-16 live	200-430	T204	6	47		43	37	41	44	42	54	56	65	67	69	72	74	69	57	58	59	67	69	67	72	74	74	70	65	57	55	53	53	46	36	32	46	81
103	5/6	M-16 live	200-430	T204	20	34	46	46	44	31		49	50	54	58	61	63	69	70	67	59	57	59	65	66	63	69	68	66	61	54	48	42	33	42	33	31	13	33	77
103	5/6	M-16 live	200-430	T205	8	53	52	51	50	45	49	51	54	55	56	59	61	63	61	61	54	52	57	67	74	77	77	78	77	74	65	57	54	42	57	54	51	46	54	85
103	5/6	M-16 live	200-430	T205	20	55	53	52	51	50	53	54	56	58	59	63	66	72	77	77	66	63	66	72	80	82	84	83	80	77	70	65	57	61	70	68	63	48	68	91
103	5/6	M-16 live	200-430	T206	9	50	51	51	47	9	47	48	43	52	52	66	59	67	67	67	59	56	59	66	62	66	69	70	69	66	62	58	52	56	41	33	31	23	31	77
103	5/6	M-16 live	200-430	T206	25	60	63	61	55	55	52	50	56	54	54	59	63	68	77	79	73	69	72	71	68	71	75	76	75	72	60	58	53	54	60	58	56	50	58	84
103	5/6	M-16 live	200-430	T207	5	60	60	59	55	51	49	46	44	52	46	54	59	63	63	61	51	54	62	63	58	63	64	63	63	61	36	27	35	36	36	27	27	16	27	73
103	5/6	M-16 live	200-430	T207	19	51	45	46	46	47	43	42	50	52	54	57	63	69	70	67	55	57	63	66	62	66	69	69	69	65	44	36	43	44	44	36	30	53	36	78
103	5/6	M-16 live	200-430	T208	6	52	37	45	38	40		43	40	50	44	54	58	72	75	75	58	56	67	72	68	72	75	76	74	72	46	41	50	50	46	41	32	22	41	76
103	5/6	M-16 live	200-430	T209	17	55	52	52	52	47	45	49	52	53	56	58	62	67	66	65	58	59	62	68	66	69	71	71	69	66	53	46	53	59	53	44	36	32	44	82
103	5/6	M-16 live	200-430	T209	4	47	49	46	46	49	42	43	41	38	41	47	51	57	59	56	48	50	54	64	68	64	70	71	71	69	40	32	40	48	40	32	30	16	32	79
103	5/6	M-16 live	200-430	T210	8	54	49	50	47	46	45	46	47	43	46	47	55	62	67	67	55	56	56	66	64	66	72	71	69	67	40	35	48	48	45	35	31	27	35	79
103	5/6	M-16 live	200-430	T210	13	49	41	49	44	34	44	42	45	50	49	52	57	58	63	63	52	53	58	63	65	64	70	71	71	69	43	35	51	48	52	35	30	20	35	79
103	5/6	M-16 live	200-430	T206	22	43		44	45		42	44	42	50	49	55	56	62	64	63	47	53	57	71	71	72	73	73	70	68	60	55	56	56	43	26	30		47	81
103	5/6	M-16 live	200-430	T211	27	52	50	49	44	37	38	40	43	40	47	48	52	59	62	62	44	52	54	57	59	60	59	62	62	62	60	52	47	38	57	25	21	13	24	71
103	5/6	M-16 live	200-430	T211	4	55	52	52	52	47	50	45	42	49	52	53	54	58	64	64	50	54	54	59	61	60	66	63	63	59	57	52	53	45	55	25	24	13	25	73
103	5/6	M-16 live	200-430	T211	8	47	49	46	46	43	41	38	47	49	51	54	56	63	67	66	52	50	58	63	64	64	69	64	64	57	58	53	53	39	44	29	26		29	74
103	5/6	M-16 live	200-430	T211	13	54	49	53	48	47	43	47	46	43	47	56	58	64	66	66	54	52	57	64	60	64	69	66	64	62	55	48	46	38	40	28	25	27	28	74
103	5/6	M-16 live	200-430	T212	22	47	49	43	47	31	45	44	42	50	50	59	58	63	69	71	60	56	63	68	66	68	73	73	72	69	53	45	53	46	53	47	38	30	47	81
103	5/6	M-16 live	200-430	T212	27	50	51	48	46	47	38	38	49	47	49	55	57	59	63	70	55	53	57	65	66	66	71	70	69	68	45	38	45	57	45	38	31	23	38	78
103	5/6	M-16 live	200-430	T212	4	54	53	52	52	50	45	49	52	52	53	55	58	62	64	69	56	55	57	60	59	64	76	74	73	63	58	55	55	39	53	53	49	46	53	83
103	5/6	M-16 live	200-430	T213	6	42	43	43	40	39	31	31	42	43	45	47	48	54	62	63	50	53	54	54	60	59	64	67	67	59	44	39	44	37	44	39	30	17	39	73
103	5/6	M-16 live	200-430	T212	20	47	46	46	49	45	45	43	50	50	53	49	55	57	64	69	55	57	62	64	64	67	69	67	64	60	46	40	46	40	46	40	30	41	30	77
103	5/6	M-16 live	200-430	T213	4	50	39	49	45	41	40	42	37	46	42	45	49	47	48	57	57	59	62	57	53	59	60	61	56	49	30	19	22	37	30	19	22	13	22	68

103	5/6	M-16 live	200-430	T213	7	53	51	49	49	45	45	43	39	46	47	50	49	49	47	47	50	51	55	57	59	60	61	63	60	57	52	48	43	37	28	20	22	69
103	5/6	M-16 live	200-430	T213	18	49	47	49	40	38	39	40	35	41	45	48	49	49	46	45	50	49	54	59	60	61	60	59	60	54	53	51	45	39	32	24	22	69
103	5/6	M-16 live	200-430	T213	21	54	56	53	53	51	50	51	51	54	56	56	57	58	60	60	56	60	63	65	66	70	72	74	75	70	71	66	63	58	56	56	52	81
103	5/6	M-16 live	200-430	T213	24	52	53	46	47	41	41	44		44	48	46	45	46	44	41	48	49	56	58	60	62	61	60	60	56	55	52	49	37	30	19	20	69
103	5/6	M-16 live	200-430	T214	6	51	51	52	49	46	41	41	44	41	56	55	58	46	54	56	56	59	66	67	69	71	72	71	72	67	66	63	56	56	49	49	43	80
103	5/6	M-16 live	200-430	T214	23	58	58	51	53	51	51	52	47	51	53	54	57	58	57	56	55	62	69	78	79	81	84	84	78	75	73	77	73	72	67	62	67	91
103	5/6	M-16 live	200-430	T214	25	58	50	54	50	44	41	43	39	42	48	53	48	46	52	53	47	48	52	58	63	64	66	76	69	74	66	61	58	53	57	53	48	81
103	5/6	M-16 live	200-430	T215	4	49	43	43	41	31	32	46		49	50	51	53	49	50	51	51	52	52	56	59	64	65	67	67	62	59	54	51	48	42	33	26	74
103	5/6	M-16 live	200-430	T215	9	54	54	53	49	46	46	43	43	53	54	57	53	55	52	52	56	57	53	56	60	62	63	64	64	60	56	51	46	41	33	25	24	71
103	5/6	M-16 live	200-430	T216	4	61	60	59	58	55	55	55	55	50	54	61	57	54	54	51	53	54	65	73	76	78	80	81	81	82	80	78	76	74	73	71	66	90
103	5/6	M-16 live	200-430	T216	13	38		43		40	40	37		47	46	49	49	51	48	46	50	51	49	56	56	57	58	58	62	61	59	58	56	53	49	47	35	69
103	5/6	M-16 live	200-430	T216	15	37	38	38	31	34	34	42	45	45	47	48	46	44	42	45	47	47	51	53	54	56	58	59	59	56	54	51	47	42	38	34	23	66
103	5/6	M-16 live	200-430	T216	26	46		44	35	45	39	43		49	50	50	52	51	50	50	51	52	53	58	60	61	62	63	63	62	62	61	58	57	52	56	48	72
103	5/6	M-16 live	200-430	T217	2					31	41	34	32	44	45	45	44	49	45	50	45	47	47	55	56	57	57	58	60	56	56	55	50	47	36	16	13	66
103	5/6	M-16 live	200-430	T218	5	54	54	53	49	49	46	46	43	50	51	54	54	54	54	55	54	55	66	69	71	74	76	82	80	76	70	66	60	58	62	59	53	82
103	5/6	M-16 live	200-430	T218	17	44	46	41		43	45	35	38	50	52	51	51	49	48	50	48	52	55	59	60	64	62	62	63	64	64	60	55	48	42	54	42	72
103	5/6	M-16 live	200-430	T218	26	42	43	38	31	43	43	42	38	49	51	54	54	52	50	51	51	54	50	58	61	64	71	73	73	70	68	61	55	50	51	55	41	80
103	5/6	M-16 live	200-430	T219	5	47		44	40	44	43	35	42	50	54	57	51	50	48	50	50	53	57	63	66	70	66	66	66	63	60	57	53	51	46	55	17	74
103	5/6	M-16 live	200-430	T219	15		38			31		32	35	48	50	49	49	43	44	49	51	52	52	58	60	62	61	60	58	57	52	49	46	39	35	32		69
103	5/6	M-16 live	200-430	T219	18	38	38	35	31	39	39	41	37	50	52	54	53	53	54	52	56	57	56	60	60	61	61	60	60	57	56	53	52	46	39	34	28	69
103	5/6	M-16 live	200-430	T220	7	41		43		45	39	35	41	49	54	57	52	51	49	54	57	55	60	66	67	69	69	69	69	65	62	57	54	54	51	46	36	76
103	5/6	M-16 live	200-430	T220	18	55	55	55	53	47	45	41	45	51	56	58	57	57	55	57	59	58	72	77	78	79	82	79	78	77	72	71	65	67	64	60	58	87
103	5/6	M-16 live	200-430	T220	29	37	43	50	52	49	48	46	38	54	56	58	55	55	54	54	56	56	62	62	64	65	64	63	64	62	60	54	56	54	43	16	28	73
103	5/6	M-16 live	200-430	T221	6	43	47	43		46	42	42	44	50	52	54	54	53	53	55	54	54	58	65	66	67	65	67	67	65	62	58	52	47	41	32	28	74
103	5/6	M-16 live	200-430	T221	17	44	44	42	38	42	45	44	35	52	54	53	53	49	49	52	56	56	56	63	65	65	65	63	64	60	56	53	46	47	39	32	28	73
103	5/6	M-16 live	200-430	T222	4	47	46	44	41	43	45	44	37	54	56	53	53	53	54	54	56	57	61	66	70	73	73	75	68	66	62	61	61	54	53	53	47	81
103	5/6	M-16 live	200-430	T222	8	52	55	50	52	50	52	50	49	54	55	59	59	56	56	54	55	58	65	70	74	82	77	80	82	79	68	66	61	61	64	74	68	90
103	5/6	M-16 live	200-430	T222	19	43	34	45		45	43	41	48	55	53	54	53	53	54	55	55	53	57	61	64	66	68	69	68	67	66	64	57	53	48	41	33	29	76

103	5/6	M-16 live	200-430	T222	23			54	44	46	0	36	38	46	49	49	49	49	49	47	50	54	56	58	58	59	58	52	56	50	72	72	70	67	65	28	36	20	55	20	67
103	5/6	M-16 live	200-430	T223	4		54 52	53	50 51 50	50	41 39	43 39	42 41	49	56	56	57	57	56	60	62	65	66	68	79	81	80	78	74	70	66	60	57	51	57	56	56	53	54	41	67	49	35	61	19	88
103	5/6	M-16 live	200-430	T223	9		37		44	46 41	39	43	42	49	52	53	54	52	53	55	57	60	61	63	67	68	68	67	65	62	60	57	55	53	51	52	52	53	54	42	49	17	54	32	76
103	5/6	M-16 live	200-430	T223	22	48		44 46	50 51	49	50	41	49	54	57	57	57	53	55	56	60	61	64	63	63	64	60	60	61	57	55	53	57	47	54	42	42	35	43	17	53	26	72
103	5/6	M-16 live	200-430	T224	4	41		44 38		50 51 48 44	52	54	54	54	54	53	54	54	50	52	60	61	64	67	64	67	67	63	61	61	57	56	54	43	54	50	50	43	36	54	16	50	29	74
103	5/6	M-16 live	200-430	T224	17	50 48	47 43	45 48 52 54	48	52	49	52	54	58	58	58	59	57	58	58	61	64	65	69	72	76	78	77	74	69	66	64	60	58	58	58	59	61	54	58	36	61	46	85
103	5/6	M-16 live	200-430	T225	5		48 46 47 48 43	48	44	52	53	55	51	57	56	57	57	55	56	57	57	59	61	64	70	74	75	77	73	70	66	61	57	54	57	57	62	57	50	26	57	37	49	50	82
103	5/6	M-16 live	200-430	T225	17	34		45 41	44	37	41	42	55	55	56	56	50	56	56	56	57	59	61	64	65	66	65	65	64	62	58	54	47	46	44	44	62	55	37	28	28	17	74
103	5/6	M-16 live	200-430	T225	19	44		34 38	38 37	38	42	48	49	50	50	49	47	45	45	46	47	49	55	57	57	56	55	54	49	47	45	17	26	17	66
103	5/6	M-16 live	200-430	T225	30	41		46 43	45 38	43	50	54	56	57	57	58	58	57	57	56	57	59	63	68	70	72	71	70	68	63	57	52	58	54	61	52	45	30	44	80
103	5/6	M-16 live	200-430	T226	10	42		45 43	46 43	41	52	55	55	58	59	60	60	59	59	59	60	61	64	70	72	76	75	74	72	67	61	60	64	60	62	37	46	34	45	28	82
103	5/6	M-16 live	200-430	T226	23	47 34	47 42	46 44 53 56	58	52	55	57	57	57	56	56	60	60	61	61	60	63	64	68	71	74	73	73	71	68	60	60	63	63	63	73	57	45	36	32	19	81
103	5/6	M-16 live	200-430	T226	28	38		46 43	44 44 38	49	52	53	54	54	53	54	54	52	55	58	64	66	68	70	72	73	72	70	66	64	58	52	52	47	40	31	45	31	28	17	77
103	5/6	M-16 live	200-430	T227	9	49 50	49 49 47	50 49 54 55	50	65	59	59	60	61	61	60	62	65	71	73	76	78	79	81	80	79	76	71	58	57	57	54	67	58	54	40	58	31	49	44	87
103	5/6	M-16 live	200-430	T227	22	55	53 55 54 53	52 52 52 55	57	52	55	51	53	56	57	59	59	60	63	68	72	75	80	82	82	81	76	73	66	60	69	60	71	69	66	63	34	58	45	90
103	5/6	M-16 live	200-430	T228	5	51 50	50 48	49 50 53 54	57	58	56	53	56	59	59	60	61	61	64	70	72	74	76	75	75	72	68	61	61	52	61	57	64	62	52	46	30	54	43	83
103	5/6	M-16 live	200-430	T228	22	53 47	50 46	46 44 43 51	51	52	55	57	56	54	59	60	60	61	65	70	71	70	72	72	71	69	68	63	57	55	55	55	59	59	46	35	54	23	46	32	79
103	5/6	M-16 live	200-430	T229	8	53 54	52 50 45	48 49 48 53	56	56	59	59	56	56	59	60	61	61	62	66	70	72	73	75	74	72	70	63	59	53	53	47	59	52	61	47	36	42	35	42	47	83
103	5/6	M-16 live	200-430	T229	11	53 51	53 50	50 47 46 50	52	54	55	56	53	59	58	59	57	55	56	62	66	68	72	75	78	76	76	72	69	61	55	56	59	62	61	47	45	59	48	58	56	84
103	5/6	M-16 live	200-430	T229	26	53 48	52 50	50 47 46 50	59	53	56	59	59	57	56	56	57	58	62	65	69	72	73	71	73	72	72	70	66	61	57	57	58	69	62	66	40	52	36	32	20	80
103	5/6	M-16 live	200-430	T229	28	34		48 47	41 31	49	48	47	47	47	47	48	46	50	52	55	57	57	57	56	57	56	53	50	44	41	30	15	35	40	16	66
103	5/6	M-16 live	200-430	T230	4	63 63	62 65	63 67 70 65	65	52	55	51	53	51	44	44	46	42	38	38	37	33	32	32	28	30	23	15	0	28	19	77
103	5/6	M-16 live	200-430	T231	4	43		46 44	45 45 39	49	70	65	62	55	56	57	55	56	62	67	70	72	74	75	73	70	65	62	54	55	44	58	54	60	33	44	37	33	27	80
103	5/6	M-16 live	200-430	T231	15	53 46	34 45 34	46 47 50 52	49	49	53	51	56	53	53	54	56	58	60	63	67	67	67	66	64	59	56	53	50	42	48	45	54	32	38	32	23	82
103	5/6	M-16 live	200-430	T231	25	47	45 43 0	46 47 48 53	54	53	55	57	54	53	53	53	56	58	62	67	67	67	64	61	61	59	50	45	36	42	59	53	42	48	36	36	84
103	5/6	M-16 live	200-430	T232	5		37 47 38 0	47 46 43 50	49	41	38	43	53	54	55	53	53	56	58	62	67	61	62	61	57	50	36	16	45	45	48	45	36	31	22	80
103	5/6	M-16 live	200-430	T232	20	44		50 46 31	45 45 44 51	57	57	56	56	54	56	58	59	58	62	63	68	71	73	74	75	76	71	67	56	57	46	45	45	57	32	36	20	81
103	5/6	M-16 live	200-430	T233	7	58	56 56 51	49 49 46 50	53	52	54	57	51	53	51	54	57	60	63	67	67	64	64	59	54	40	70	46	53	48	60	35	46	31	45	83
103	5/6	M-16 live	200-430	T233	16	53	55 53	53 46 47 52	50	46	50	49	53	51	53	33	0	43	50	54	56	58	59	63	56	41	36	42	59	48	42	36	33	45	83
103	5/6	M-16 live	200-430	T233	20	56 59	58 57 56	51 46 40 41	0	54	55	51	56	53	54	55	50	54	58	56	63	56	64	60	50	41	24	36	31	47	16	70
103	5/6	M-16 live	200-430	T233	29	56 57	58 55 52	50 46 37 50	54	54	55	51	53	54	56	58	60	63	65	68	69	71	69	71	67	63	58	53	38	47	30	27	17	78

103	5/6	M-16 live	200-430	T234	4	52	49	50	47	40	43	42	37	47	46	49	51	51	50	51	51	52	51	53	60	64	66	66	65	64	60	58	53	47	40	33	22	26	73
103	5/6	M-16 live	200-430	T234	14	47	45	44	44	31	42	41	41	45	46	47	49	48	47	47	48	47	48	51	62	64	65	63	65	61	59	57	51	47	40	32	20	25	72
103	5/6	M-16 live	200-430	T234	16	43		42	38		42	32	28	36	42	45	47	45	46	47	45	47	48	53	64	67	66	63	65	59	57	57	53	50	42	33	25	23	73
103	5/6	M-16 live	200-430	T235	3	51	48	49	50	47	50	48	48	50	51	52	53	55	54	56	53	54	56	59	68	76	74	72	70	67	63	64	64	61	55	55	54	46	81
103	5/6	M-16 live	200-430	T235	8	49	47	45	45	35	44	42	42	48	48	50	52	54	50	51	52	54	53	57	68	71	70	69	69	67	63	65	58	61	52	44	36	30	78
103	5/6	M-16 live	200-430	T235	17	43		43			38	31		46	46	47	51	51	50	53	55	49	57	55	61	63	64	65	60	62	60	57	53	49	43	35	26	23	72
103	5/6	M-16 live	200-430	T235	21	50	40	42	40		43	40	33	43	43	45	49	50	47	49	50	54	59	54	62	66	67	65	63	60	59	58	53	48	43	34	23	24	73
103	5/6	M-16 live	200-430	T235	24	49	51	48	47	44	45	43	38	44	45	49	49	45	46	49	51	50	48	53	63	64	65	65	63	60	59	59	53	50	43	34	24	25	72
103	5/6	M-16 live	200-430	T236	6	55	53	53	51	46	49	48	44	46	50	55	56	58	54	54	55	66	60	65	68	74	77	77	66	75	71	68	65	60	55	49	49	45	84
103	5/6	M-16 live	200-430	T236	9	46	49	48	47	39	42	41	34	46	46	47	41	42	49	47	54	60	55	59	64	69	70	71	61	69	66	64	59	57	52	46	42	30	78
103	5/6	M-16 live	200-430	T236	18	34	34	34	37		33		33	40	43	44	46	51	43	52	55	49	56	51	53	62	62	71	66	69	56	53	49		39	29	22	20	70
103	5/6	M-16 live	200-430	T236	21	41		31	35	35	34	34		39	41	42	43	47	40	43	48	48	43	48	56	59	62	62	56	59	52	54	49	48	43	35	23	23	70
103	5/6	M-16 live	200-430	T237	2	34		35	34		38		34	34		49	41	42	37	47	45	35	47	48	48	49	55	57	52	54	44	49	40	40	33	25	16	16	64
103	5/6	M-16 live	200-430	T237	16	52	53	52	53	47	46	46		48	48	51	52	51	50	50	51	50	55	56	65	68	77	68	65	65	59	52	52	48	45	41	30	27	76
103	5/6	M-16 live	200-430	T237	26				38		35	40	28	38	39	41	36	39	37	39	41	37	42	44	49	52	60	58	54	54	44	46	33	29	20	20	13	13	65
103	5/6	M-16 live	200-430	T238	2	45	43	41	45	39	40	39	31	44	45	49	41	49	39	48	49	47	48	51	54	58	61	59	51	59	56	54	50	46	39	31	22	19	70
103	5/6	M-16 live	200-430	T238	15			34	38		39	43	39	45	48	48	46	48	48	46	48	49	52	49	52	54	56	56	53	53	52	51	49	37	34	27	19	20	65
103	5/6	M-16 live	200-430	T239	2	51	47	47	47	34	37	38	33	47	46	45	49	46	45	47	50	53	58	50	58	65	67	57	56	61	57	57	52	45	41	33	24	22	72
103	5/6	M-16 live	200-430	T239	7	56	56	56	46	38	48	42	34	44	48	48	48	45	47	48	47	56	56	57	58	60	58	59	53	55	54	52	47	42	36	29	13	16	68
103	5/6	M-16 live	200-430	T239	16	46	53	47	44	40	46	33		40	42	45	47	47	46	48	47	54	54	59	60	54	59	56	58	54	58	51	46	35	31	23	22	16	66
103	5/6	M-16 live	200-430	T239	20	46	49	51	47	39	41	43		45	44	47	45	41	46	49	50	56	54	56	65	61	63	65	59	59	56	51	48	48	44	37	28	24	71
103	5/6	M-16 live	200-430	T239	25	47	48	45	44	31	43	32	38	49	45	47	48	42	48	55	57	60	60	63	65	68	74	74	68	70	65	68	63	63	63	61	58	53	81
103	5/6	M-16 live	200-430	T240	2	45	47	47	47	40	40	39	37	49	47	46	48	46	48	50	53	60	56	54	60	65	66	68	66	65	60	64	59	58	53	53	58	31	76
103	5/6	M-16 live	200-430	T240	6	34	34	34	31	37	37	37	41	47	42	45	45	45	46	51	51	54	51	51	57	63	66	57	56	57	55	59	51	48	43	31		22	66
103	5/6	M-16 live	200-430	T240	16	47	48	45	40		38	41	43	42	43	46	46	46	46	50	50	52	52	49	48	57	59	56	56	54	52	56	50	45	38	30	22	19	67
103	5/6	M-16 live	200-430	T241	22	42		46	45	38	34	0	34	47	47	52	52	52	51	50	51	51	51	50	51	60	64	62	60	60	57	56	57	49	46	38	27	25	71
103	5/6	M-16 live	200-430	T242	5	44	42	42	40	44	44	41	40	46	46	51	50	50	51	50	50	57	57	65	59	64	65	64	60	60	52	52	48	43	43	37	29	22	71
103	5/6	M-16 live	200-430	T242	10	42	44	37	45	31	36	36	41	36	38	41	43	43	43	42	43	41	45	47	52	59	60	58	55	55	47	51	43	43	37	29	17	19	67

The following is a dense numeric data table. Leading descriptor columns are identical for every row (Site 103, "5/6", "M-16 live", range "200-430"), followed by a target ID, a value, and a series of score readings.

Site		Weapon	Range	Target	Val	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30
103	5/6	M-16 live	200-430	T242	22	40	34	38	34	42	42	47	50	49	48	47	49	48	49	56	59	62	62	66	68	68	63	57	51	45	38	28	13	74	
103	5/6	M-16 live	200-430	T243	1	42	40	41	36	42	41	41	38	42	41	42	41	44	46	49	54	56	53	56	49	58	53	46	39	32	25	19	20	19	64
103	5/6	M-16 live	200-430	T243	3	45	34	40	39	28	41	37	41	41	44	39	41	42	44	51	58	61	65	60	58	50	58	53	48	41	30	20	16	71	
103	5/6	M-16 live	200-430	T243	6	34	39	38	40	37	38	38	44	44	47	47	52	50	55	57	58	50	52	58	57	50	45	39	32	21	20	13	66		
103	5/6	M-16 live	200-430	T244	3	45	31	46	42	28	40	41	41	43	43	41	43	44	45	53	56	57	56	53	49	47	43	33	22	20	64				
103	5/6	M-16 live	200-430	T244	13	49	47	44	44	39	35	41	41	43	40	47	44	42	53	54	55	61	64	70	63	60	56	54	50	45	41	33	24	16	72
103	5/6	M-16 live	200-430	T244	25	45	41	42	39	28	43	42	46	48	45	47	48	48	52	54	60	58	58	54	56	50	51	45	44	31	24	16	71		
103	5/6	M-16 live	200-430	T246	2	45	41	38	40	28	43	43	41	42	45	43	42	44	55	53	52	53	50	45	40	35	28	19	19	65					
103	5/6	M-16 live	200-430	T246	11	40	38	42	34	39	32	42	40	45	39	47	47	42	48	56	55	51	58	53	49	44	40	31	29	22	16	61			
103	5/6	M-16 live	200-430	T246	15	39	35	28	37	40	41	43	42	43	41	47	48	53	55	52	49	52	55	52	39	37	32	26	20	19	62				
103	5/6	M-16 live	200-430	T247	13	37	37	35	42	39	43	38	45	47	41	48	43	45	53	54	56	53	58	58	57	45	48	37	34	28	17	64			
103	5/6	M-16 live	200-430	T247	26	47	38	40	41	41	42	41	45	44	48	52	47	50	54	55	56	59	65	65	63	48	50	44	39	37	32	26	21	67	
103	5/6	M-16 live	200-430	T248	3	46	41	45	44	36	43	40	47	44	45	47	46	44	54	55	56	58	54	58	54	44	50	43	37	30	23	17	66		
103	5/6	M-16 live	200-430	T248	11	44	45	46	40	37	45	36	44	45	44	47	45	53	50	56	58	60	60	58	57	45	49	48	42	37	30	24	69		
103	5/6	M-16 live	200-430	T248	18	54	52	54	47	35	43	42	43	45	45	42	47	49	51	59	57	59	58	57	50	52	50	48	37	34	28	20	67		
103	5/6	M-16 live	200-430	T249	4	42	52	43	34	45	45	45	45	41	47	45	54	56	59	54	58	65	66	58	45	53	43	36	28	20	72				
103	5/6	M-16 live	200-430	T249	7	45	44	42	48	52	45	51	50	52	53	59	61	63	66	69	73	54	42	41	36	30	37	27	24	13	65				
103	5/6	M-16 live	200-430	T249	20	56	55	49	46	44	28	45	46	46	48	53	48	51	53	54	56	58	61	66	55	47	56	43	37	32	30	24	67		
103	5/6	M-16 live	200-430	T250	4	45	48	43	45	40	43	44	44	45	44	47	45	53	57	56	65	60	58	54	50	45	50	40	38	32	19	25	68		
103	5/6	M-16 live	200-430	T250	14	49	46	47	46	40	47	48	49	55	52	52	71	75	77	74	73	71	62	63	58	62	45	40	55	56	51	46	82		
103	5/6	M-16 live	200-430	T250	16	38	28	39	32	42	42	41	40	39	42	41	41	41	46	48	50	52	54	57	54	45	40	34	34	28	13	64			
103	5/6	M-16 live	200-430	T250	27	48	47	43	42	38	40	39	38	40	40	42	43	41	48	53	57	63	66	69	54	48	52	42	33	26	13	75			
103	5/6	M-16 live	200-430	T251	6	48	44	39	34	47	44	46	45	43	42	46	44	47	50	56	57	61	66	65	56	51	45	40	33	29	24	66			
103	5/6	M-16 live	200-430	T252	5	48	44	39	34	47	44	44	45	44	43	45	49	54	56	55	58	64	65	57	48	49	44	38	29	26	25	20	66		
103	5/6	M-16 live	200-430	T252	8	44	46	38	40	34	42	34	47	48	45	44	45	41	42	46	48	53	58	56	50	43	48	37	24	16	20	13	66		
103	5/6	M-16 live	200-430	T252	16	35	38	40	37	43	41	39	40	41	36	41	45	40	41	46	50	48	51	51	48	46	39	28	22	13	60				
103	5/6	M-16 live	200-430	T252	18	38	37	38	32	42	43	39	39	35	36	41	41	41	40	44	48	49	52	51	45	39	29	27	17	60					
103	5/6	M-16 live	200-430	T253	6	34	41	47	40	28	38	43	42	44	42	45	40	44	49	47	52	58	58	52	49	44	40	33	26	23	66				
103	5/6	M-16 live	200-430	T253	19	41	40	44	40	39	32	45	38	36	39	44	47	43	40	44	43	49	56	57	54	47	43	37	29	21	65				
103	5/6	M-16 live	200-430	T254	3	40	38	34	42	40	42	36	42	34	40	39	40	37	42	48	46	44	48	49	48	43	37	24	22	20	57				
103	5/6	M-16 live	200-430	T254	8	42	34	34	38	42	45	42	39	42	38	33	42	37	40	41	43	44	44	45	44	32	-240	13	22	56					

103	5/6	M-16 live	200-430	Target	#																						
103	5/6	M-16 live	200-430	T254	17	17	21	28	31	40	46	49	50	50	48	46	44	40	41	39	32	36	38	31	37	41	35	57
103	5/6	M-16 live	200-430	T254	19	17	17	27	29	40	45	49	50	50	48	47	43	38	40	39	23	39	39	38	39	42	38	58
103	5/6	M-16 live	200-430	T254	21	13	20	29	30	40	45	49	51	51	48	47	44	41	39	38	34	38	42	41	40	39	37	58
103	5/6	M-16 live	200-430	T254	24	13	19	30	26	40	46	48	50	49	47	46	45	38	41	40	34	40	41	37	39	43	35	58
103	5/6	M-16 live	200-430	T255	4	17	29	37	43	46	50	55	57	58	59	57	54	50	47	44	33	42	44	29	43	46	39	66
103	5/6	M-16 live	200-430	T255	11	20	23	32	29	41	47	50	52	51	50	49	46	44	44	44	34	43	43	34	43	46	38	60
103	5/6	M-16 live	200-430	T255	20	16	13	25	21	35	41	45	46	46	45	46	45	42	42	38	35	39	37	37	40	42	36	56
103	5/6	M-16 live	200-430	T256	8	41	56	60	64	66	69	74	76	76	75	73	70	66	61	57	56	56	58	59	57	57	54	83
103	5/6	M-16 live	200-430	T256	23	68	74	77	78	80	83	85	87	87	86	83	79	73	69	65	63	62	61	60	59	59	58	94
103	5/6	M-16 live	200-430	T257	4	43	53	59	62	65	66	72	76	76	76	74	72	69	64	58	56	53	55	55	55	54	53	83
103	5/6	M-16 live	200-430	T257	7	30	44	50	56	58	62	66	69	69	68	65	62	57	51	47	43	42	43	39	40	45	37	75
103	5/6	M-16 live	200-430	T257	12	56	64	67	71	72	75	79	80	80	78	75	72	68	62	58	56	55	55	55	56	54	53	87
103	5/6	M-16 live	200-430	T257	17	37	53	58	63	66	70	73	75	76	77	74	69	65	61	58	55	53	54	56	56	55	53	83
103	5/6	M-16 live	200-430	T258	29	73	80	80	81	84	86	88	88	88	88	86	82	78	74	68	66	64	63	63	61	61	60	96
103	5/6	M-16 live	200-430	T258	9	69	77	75	79	82	83	83	84	83	81	78	75	70	65	63	62	59	58	58	58	58	57	92
103	5/6	M-16 live	200-430	T259	18	60	67	69	73	75	78	81	82	83	80	79	75	70	63	61	60	59	58	57	58	58	57	89
103	5/6	M-16 live	200-430	T259	8	69	77	75	79	82	83	83	84	83	81	78	75	70	65	63	62	59	58	58	58	58	57	92
103	5/6	M-16 live	200-430	T259	18	60	67	69	73	75	78	81	82	83	80	79	75	70	63	61	60	59	58	57	58	58	57	89
103	5/6	M-16 live	200-430	T260	6	36	51	49	53	59	61	64	66	67	68	66	65	61	57	53	51	52	53	51	52	52	50	75
103	5/6	M-16 live	200-430	T261	2	50	54	60	60	65	63	65	70	76	77	72	68	62	56	54	54	53	51	50	52	49	46	81
103	5/6	M-16 live	200-430	T261	9	53	62	65	68	68	72	76	77	76	74	71	67	63	58	55	54	54	54	53	54	55	53	83
103	5/6	M-16 live	200-430	T261	20	27	40	45	51	55	59	64	65	66	66	66	63	60	56	53	52	54	53	53	55	55	53	74
103	5/6	M-16 live	200-430	T261	24	26	38	45	49	54	58	63	67	68	67	65	62	59	54	50	46	47	50	53	55	55	53	74
103	5/6	M-16 live	200-430	T262	4	16	27	34	39	45	49	54	57	58	58	57	55	55	51	47	40	44	45	46	47	47	44	66
103	5/6	M-16 live	200-430	T262	7		26	33	37	43	47	53	55	55	53	54	52	48	45	41	37	43	42	42	42	46	42	63
103	5/6	M-16 live	200-430	T263	3	22	24	32	38	47	52	57	61	62	60	57	55	51	48	45	40	41	43	36	42	45	38	68
103	5/6	M-16 live	200-430	T263	6	22	37	44	48	53	56	61	65	67	64	62	59	54	47	43	37	39	41	41	43	46	42	72
103	5/6	M-16 live	200-430	T263	15	13	27	33	37	44	49	53	56	56	58	58	57	52	47	43	35	40	38	34	41	43	38	65

				Target	n	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30	V31	Final
103	5/6	M-16 live	200-430	T264	3	46	42	40	43	46	47	43	44	49	48	48	49	43	43	44	46	52	57	56	58	54	55	57	49	54	43	36	32	23	16	19	65
103	5/6	M-16 live	200-430	T264	7	41	34	38	35	45	45	48	46	49	51	51	50	49	45	48	49	56	58	62	62	55	59	51	47	50	46	39	34	27	16	22 13	69
103	5/6	M-16 live	200-430	T264	9	34	38	42	41	46	46	46	42	48	51	50	56	53	46	46	53	57	58	53	57	55	51	56	51	47	43	37	31	21	17	19 13	65
103	5/6	M-16 live	200-430	T264	16	41	41	44	41	47	49	49	49	51	52	52	62	64	51	49	51	64	65	64	64	60	65	60	58	56	51	48	42	38	30	24 13	72
103	5/6	M-16 live	200-430	T265	7	52	48	47	44	45	43	38	45	46	51	46	53	57	49	49	51	54	57	57	56	54	56	57	53	50	46	39	36	28	13 20	65
103	5/6	M-16 live	200-430	T265	10	39	45	35	42	45	43	41	47	49	44	49	52	53	38	30	42	49	49	54	53	52	54	54	51	47	44	37	33	23	16 13	63
103	5/6	M-16 live	200-430	T265	15	51	51	42	38	42	41	37	45	42	41	43	47	47	30	32	38	44	48	44	50	47	52	55	51	51	44	36	34	23		23	63
103	5/6	M-16 live	200-430	T266	9	49	49	47	43	48	43	41	48	44	40	43	46	56	43	19	36	48	41	39	50	45	47	50	45	47	44	32	28	20	16	58
103	5/6	M-16 live	200-430	T266	14	38	43	45	40	46	41	40	42	54	54	43	44	60	43	34	42	54	54	54	54	51	54	54	47	43	43	34	31	25	22	62
103	5/6	M-16 live	200-430	T267	6	53	52	51	49	49	50	48	45	54	54	54	54	56	55	55	54	72	73	74	71	67	64	64	56	50	56	56	52	50	43	39 33	80
103	5/6	M-16 live	200-430	T267	8	45	49	52	44	45	45	38	44	48	49	48	50	52	50	60	58	64	66	65	66	64	66	58	61	58	52	46	52	43	38	31 16	73
103	5/6	M-16 live	200-430	T267	15	61	60	59	59	56	56	53	50	56	58	58	57	70	63	60	75	84	81	83	85	84	84	81	77	78	77	78	75	73	66	63	92
103	5/6	M-16 live	200-430	T267	20	54	53	50	51	49	52	53	41	56	56	57	57	66	62	62	71	81	82	82	79	77	76	73	68	72	71	68	69	68	62	54	88
103	5/6	M-16 live	200-430	T267	30	87	86	84	81	80	74	68	64	69	69	66	67	69	68	69	73	84	80	82	84	80	82	76	72	77	77	80	77	71	68	64	95
103	5/6	M-16 live	200-430	T268	3	44	42	43	39	49	31	49	53	52	51	54	51	56	54	52	61	64	67	69	67	64	60	64	61	53	52	53	52	45	49	25	76
103	5/6	M-16 live	200-430	T268	8	40	46	37	50	51	52	52	55	52	51	56	57	65	61	66	66	68	67	68	66	63	66	65	60	57	53	55	53	44	47	76
103	5/6	M-16 live	200-430	T268	13	34	45	38	46	50	50	51	48	53	51	53	56	61	56	57	64	66	65	66	64	61	64	63	60	60	54	52	52	43	59	30	74
103	5/6	M-16 live	200-430	T268	18	44	47	37	43	45	50	50	49	49	49	50	53	62	53	57	60	64	62	64	60	60	63	62	60	59	54	56	50	48	57	28	72
103	5/6	M-16 live	200-430	T268	23	51	46	48	47	46	51	45	46	54	53	48	54	56	50	59	57	74	69	77	78	73	75	67	66	58	56	52	59	42	50	40	85
103	5/6	M-16 live	200-430	T268	30	49	47	48	38	41	49	46	41	55	52	53	47	66	56	61	67	68	67	69	77	72	70	64	63	58	51	60	49	38	56	47	84
103	5/6	M-16 live	200-430	T269	7	54	51	49	47	53	54	53	43	58	55	55	57	69	57	62	72	76	80	80	78	69	67	66	66	59	51	65	57	38	55	49	87
103	5/6	M-16 live	200-430	T269	11	46	51	48	42	43	56	41	48	52	48	52	51	56	51	65	66	75	74	78	77	70	64	60	62	58	51	64	57	24	41	27	82
103	5/6	M-16 live	200-430	T269	15	47	31	46	47	45	49	48	50	54	50	51	52	57	53	61	67	73	77	75	73	64	60	57	62	50	53	57	59	19	48	44	86
103	5/6	M-16 live	200-430	T269	22	47	43	48	44	51	52	44	48	56	54	53	54	63	54	59	64	67	72	70	73	63	57	60	67	48	54	59	49	32	34	22	79
103	5/6	M-16 live	200-430	T269	30	41	46	42	51	52	53	47	49	50	48	54	49	67	52	58	63	73	69	66	72	67	63	64	67	56	51	53	45	38	30	17	76
103	5/6	M-16 live	200-430	T270	3	34	43	42	40	43	46	38	51	53	50	52	52	66	53	57	70	70	70	69	69	64	63	60	64	55	51	51	45	38	31	19	77
103	5/6	M-16 live	200-430	T270	7	42	35	28	41	42	43	28	42	48	46	47	46	51	47	60	60	61	59	60	58	54	57	52	62	50	46	38	32	24	21	68
103	5/6	M-16 live	200-430	T270	10	40	43	39	45	43	45	39	40	52	50	50	51	53	51	59	64	70	61	61	59	57	52	53	57	48	43	36	30	19	24	69
103	5/6	M-16 live	200-430	T270	13	42	31	41	32	47	47	41	44	51	48	49	49	54	52	58	70	72	68	64	67	63	58	52	67	52	51	46	39	32	28	13	76
103	5/6	M-16 live	200-430	T270	18	39	42	43	37	49	48	43	51	53	49	51	52	54	52	57	64	69	67	64	63	63	57	58	63	51	46	53	45	28	26	13	74
103	5/6	M-16 live	200-430	T270	21	40	37	35	31	42	43	46	35	58	45	46	50	60	58	61	64	67	62	64	62	63	60	58	64	47	41	39	34	22	16	72

103	5/6	M-16 live	200-430	T271	6	53	52	53	49	47	48	45	50	49	52	54	55	53	53	55	61	64	67	69	74	77	76	75	71	65	67	63	60	61	57	53	50	83
103	5/6	M-16 live	200-430	T271	16	41	48		42	47	48	47	53	56	57	60	60	58	58	57	58	62	66	69	71	72	71	69	66	62	58	54	49	43	33	30	17	79
103	5/6	M-16 live	200-430	T271	30	57	52	53	51	50	55	50	55	60	60	61	60	59	59	61	63	66	72	77	80	82	84	82	81	76	73	72	68	66	62	60	56	90
103	5/6	M-16 live	200-430	T272	5	57	54	54	54	48	50	45	50	53	53	54	53	55	56	58	59	63	68	72	76	77	80	80	77	73	69	70	67	64	62	59	58	86
103	5/6	M-16 live	200-430	T272	13	55	54	55	52	52	52	52	55	57	58	58	60	57	58	60	61	66	71	75	79	82	83	82	80	76	74	73	70	67	64	60	55	89
103	5/6	M-16 live	200-430	T273	15	54	54	53	53	50	52	52	57	59	59	62	58	61	60	60	62	67	72	75	78	80	81	81	78	73	71	71	65	65	59	57	53	88
103	5/6	M-16 live	200-430	T273	22	51	40	51	48	50	53	50	53	58	57	59	59	59	59	61	63	64	70	76	81	81	83	82	81	77	74	73	69	69	64	62	61	90
103	5/6	M-16 live	200-430	T273	28	47	43	46	40	48	48	45	51	52	54	56	57	55	56	58	61	66	70	75	78	79	83	81	79	74	73	72	66	64	61	59	56	88
103	5/6	M-16 live	200-430	T274	1	38			40	28	35		43	41	46	46	46	42	42	44	49	55	62	63	65	67	67	60	59	58	53	51	47	42	35	23	16	73
103	5/6	M-16 live	200-430	T274	12	50	51	51	49	45	48	53	55	58	60	60	61	60	60	60	61	68	70	75	78	80	80	79	77	73	70	68	67	65	59	56	53	87
103	5/6	M-16 live	200-430	T274	22	47	48	44	42		43	43	48	49	52	54	54	53	53	54	53	60	63	64	66	67	66	64	63	59	54	48	42	37	27	13	74
103	5/6	M-16 live	200-430	T274	30	45		38	42		41	48	52	52	54	56	55	54	53	54	54	63	67	70	70	71	69	68	67	63	59	55	49	44	37	29	20	77
103	5/6	M-16 live	200-430	T275	2	34					43	42	51	51	52	53	53	51	51	48	50	57	62	64	64	67	66	62	56	56	53	48	42	37	29	27		73
103	5/6	M-16 live	200-430	T275	4	46	44	45	43	42	44	45	47	47	56	60	59	54	54	60	64	68	72	75	76	79	80	76	74	66	61	60	55	48	43	39		83
103	5/6	M-16 live	200-430	T275	13	53	45	45	43	49	49	51	54	55	57	61	54	50	54	61	70	69	73	79	79	78	79	75	70	63	61	67	64	62	55	53	51	85
103	5/6	M-16 live	200-430	T275	15	49	50	49	47	47	48	46	47	48	49	48	46	48	45	49	48	56	61	66	70	72	75	73	68	62	56	51	46	39	23	17	48	83
103	5/6	M-16 live	200-430	T275	18		41			28	35		43	42	47	47	48	45	44	44	48	51	56	61	63	64	61	59	53	53	49	45	39	33	23			70
103	5/6	M-16 live	200-430	T275	28	46	34	47		43	38	42	47	47	52	54	57	54	49	55	55	60	65	68	70	70	70	67	64	61	56	51	46	40	33	28	19	77
103	5/6	M-16 live	200-430	T275	30		39			38	32	31	43	42	50	49	49	46	49	46	44	52	56	61	64	56	56	53	47	47	41	33	28	21	16	17	16	64
103	5/6	M-16 live	200-430	T276	4	44		42	40	44	44	42	48	48	51	53	53	54	54	55	53	62	66	66	66	67	67	65	61	60	55	51	46	48	43	37	39	75
103	5/6	M-16 live	200-430	T276	7	40		45	31	43	42	32	46	46	49	50	50	52	52	50	54	62	62	66	68	68	66	65	60	61	55	50	46	43	33	28	17	75
103	5/6	M-16 live	200-430	T276	11	45		46	45	42	40	43	47	49	53	53	53	55	55	53	55	64	64	69	69	69	69	65	62	60	56	53	48	42	32	27	17	76
103	5/6	M-16 live	200-430	T276	18	51	47	45	47	45	44	46	50	50	52	54	54	54	54	54	56	66	66	71	73	77	76	75	72	66	65	58	53	52	27	52	48	83
103	5/6	M-16 live	200-430	T276	23	42	34	43	42	46	36	28	42	42	46	47	48	48	48	47	49	61	61	68	70	72	75	74	74	70	65	63	58	54	54	48	44	81
103	5/6	M-16 live	200-430	T276	25	42	44	43	45	44	40	41	40	45	49	52	49	48	48	49	52	61	61	66	68	72	74	74	68	63	62	62	57	54	47	48	45	81
103	5/6	M-16 live	200-430	T276	27	43	48	43	48	47	41	44	44	40	47	48	48	48	48	49	53	63	64	69	69	76	76	78	76	70	67	70	67	64	60	58	54	84
103	5/6	M-16 live	200-430	T276	29	50	47	44	47	46	43	43	43	45	47	48	50	48	48	47	54	68	68	75	74	77	76	74	72	63	65	62	63	59	59	55	49	83
103	5/6	M-16 live	200-430	T277	19	48	47	51	50	44	49	47	54	55	56	59	58	58	58	59	59	69	69	74	77	80	80	77	75	71	68	64	61	62	53	62	42	86

103	5/6	M-16 live	200-430	T277	30	51	46	50	49	46	49	49	46	53	55	57	59	59	58	58	58	59	62	65	71	77	79	79	79	79	76	71	66	66	65	59	58	57	52	87
103	5/6	M-16 live	200-430	T278	7	54	55	54	52	51	51	51	49	55	56	58	60	60	59	59	61	60	61	63	67	72	77	81	80	79	79	72	69	65	63	60	57	59	52	52	87
103	5/6	M-16 live	200-430	T278	16	49	51	48	48	47	47	47	52	53	54	56	58	58	58	58	61	56	57	62	68	73	78	78	78	77	68	67	62	60	58	56	52	52	85
103	5/6	M-16 live	200-430	T278	20	47	38	46	41	41	45	44	49	49	51	54	55	56	55	56	56	54	54	59	62	67	73	75	77	72	69	62	64	59	59	56	54	52	48	82
103	5/6	M-16 live	200-430	T278	27	50	34	50	48	45	44	44	48	51	52	55	59	57	55	56	55	59	57	54	59	68	72	72	69	74	68	64	59	57	55	52	52	35	26	81
103	5/6	M-16 live	200-430	T278	29	41	38	42	41	38	31	41	44	44	46	48	52	50	49	48	50	50	52	51	57	67	71	72	73	75	75	67	58	55	52	50	50	50	48	81
103	5/6	M-16 live	200-430	T279	6	52	50	50	43	40	45	44	46	52	54	54	56	55	52	53	54	50	51	56	64	69	71	72	72	71	71	65	59	56	51	50	54	51	48	79
103	5/6	M-16 live	200-430	T279	30	51	46	51	51	44	52	51	50	57	59	61	62	62	64	64	66	62	62	63	66	76	78	80	81	80	80	72	65	61	57	55	64	57	44	88
103	5/6	M-16 live	200-430	T280	3	43		41	42	45	41	48	50	52	51	52	51	53	52	52	52	54	54	54	34	58	65	69	70	71	69	65	58	53	51	48	52	27	27	78
103	5/6	M-16 live	200-430	T280	11	57	52	54	53	53	53	54	56	57	59	59	61	61	60	60	61	59	59	57	64	71	74	79	81	81	78	71	64	61	57	59	59	53	52	87
103	5/6	M-16 live	200-430	T280	21	54	54	54	51	47	46	45	52	53	55	57	57	58	57	56	57	58	58	58	49	65	69	74	77	77	74	68	61	57	50	57	58	33	20	83
103	5/6	M-16 live	200-430	T280	30	56	57	55	52	52	52	52	50	55	56	57	60	61	61	60	60	59	59	58	62	69	74	73	74	76	74	69	62	62	61	59	57	50	47	82
103	5/6	M-16 live	200-430	T281	6	53	55	53	52	47	50	50	50	53	55	57	59	60	59	59	59	60	59	57	61	65	68	71	75	79	74	65	59	61	57	57	55	52	51	83
103	5/6	M-16 live	200-430	T281	13	40	47	45	37	36	42	39	37	45	45	45	49	47	46	49	50	50	51	52	49	56	64	65	70	72	64	59	47	49	45	38	32	29	78
103	5/6	M-16 live	200-430	T281	19	51	46	48	47	44	41	38	44	48	50	51	55	55	53	55	52	53	55	57	41	58	68	72	75	71	75	68	61	58	57	55	37	34	81
103	5/6	M-16 live	200-430	T281	25	57	55	53	53	52	45	47	45	50	51	53	55	55	57	56	57	58	57	58	58	65	76	80	81	77	80	76	72	58	50	57	58	43	46	88
103	5/6	M-16 live	200-430	T281	30			38	38	32	43	44	46	49	50	49	50	50	51	51	50	50	45	49	54	63	66	67	66	64	56	47	39	45	28	29	73
103	5/6	M-16 live	200-430	T282	2	44	38	39	41	33	47	48	49	52	52	52	53	50	52	53	51	51	57	61	65	68	68	64	67	58	51	46	54	44	37	24	74
103	5/6	M-16 live	200-430	T282	5		38	44	42	41	38	48	45	46	52	52	51	51	52	53	52	59	52	59	64	72	79	82	81	79	72	60	47	44	39	36	23	71
103	5/6	M-16 live	200-430	T282	12	48	45	46	48	45	42	41	46	43	46	50	50	53	52	50	52	52	52	52	57	72	77	77	77	77	65	58	53	58	58	49	51	49	48	83
103	5/6	M-16 live	200-430	T282	16	40	35	38	29	34	38	35	46	46	44	46	49	50	48	51	50	51	50	51	50	54	60	62	64	65	62	54	51	48	50	36	28	17	69
103	5/6	M-16 live	200-430	T282	19	46	35	35	45	34	37	40	48	46	44	48	51	48	47	49	51	50	45	50	55	60	64	66	68	67	66	60	56	51	44	31	20	73
103	5/6	M-16 live	200-430	T282	25	54	54	53	52	48	45	43	54	54	52	56	59	58	58	58	58	58	57	54	64	72	79	82	79	72	79	68	64	62	24	23	88
103	5/6	M-16 live	200-430	T282	30	43	42	41	42	39	42	39	47	47	49	52	52	52	52	51	51	50	52	52	61	68	68	70	69	68	68	61	54	51	44	24	16	76
103	5/6	M-16 live	200-430	T283	5	51	49	51	52	47	46	43	49	50	53	55	57	57	56	56	57	57	57	57	61	64	73	76	77	77	73	69	54	58	51	56	43	37	31	82
103	5/6	M-16 live	200-430	T283	13	52	46	49	49	45	48	53	54	55	56	56	56	57	57	56	57	57	57	60	65	75	77	78	76	77	73	57	60	56	50	45	39	84
103	5/6	M-16 live	200-430	T283	27	47	44	47	46	44	44	51	53	54	56	56	57	57	57	56	55	50	50	62	65	72	76	77	78	75	76	65	62	56	50	46	44	84
103	5/6	M-16 live	200-430	T284	4		42	40	39	37	40	44	46	46	48	48	50	50	49	48	47	49	50	55	67	68	72	69	67	65	67	64	58	51	40	36	27	16	76
103	5/6	M-16 live	200-430	T284	9	44	48	38	32	45	43	31	44	51	52	53	53	54	52	52	58	52	50	54	73	73	72	72	73	72	69	72	61	54	45	37	13	23	80
103	5/6	M-16 live	200-430	T284	15	49	49	46	48	47	47	46	49	50	51	55	56	56	55	53	56	55	55	59	69	77	78	76	78	77	73	63	50	56	50	24	85
103	5/6	M-16 live	200-430	T284	21	43	47	42	42	41	47	49	51	51	54	54	54	54	56	55	55	62	66	58	63	61	67	66	63	62	58	49	34	23	13	74

103	5/6	M-16 live	200-430	T284	26	37	42	44	45	40	42	47	48	51	54	53	53	53	52	52	49	49	54	61	66	67	70	69	67	64	67	58	55	50	44	37	27	13	77
103	5/6	M-16 live	200-430	T284	28	38	35		39	36	28	39	44	47	46	46	47	46	46	43	42	46	51	53	57	59	60	63	59	51	59	44	37	32	20	16		68
103	5/6	M-16 live	200-430	T285	8	54	53	51	51	49	49	52	55	57	58	58	58	59	58	59	60	61	64	72	77	79	78	75	71	70	67	63	63	58	56	52	45	86
103	5/6	M-16 live	200-430	T285	13	38			37		28		42	42	44	47	47	46	46	46	43	44	46	48	50	52	54	58	59	59	52	54	43	36	32	23	20	13	66
103	5/6	M-16 live	200-430	T285	16	41		41	41	32	43	45	47	48	50	50	51	49	48	46	46	48	52	56	60	58	61	63	62	52	58	47	40	37	28	19	19	69
103	5/6	M-16 live	200-430	T285	20	37	41	47	45	42	49	48	51	53	52	52	50	49	51	54	55	58	64	67	68	71	72	64	61	59	53	49	42	36	22	19	47	78
103	5/6	M-16 live	200-430	T285	24	34	43			39	47	46	49	50	49	50	52	47	45	44	47	52	57	61	64	57	62	63	64	57	53	48	36	33	28	22		70
103	5/6	M-16 live	200-430	T286	2			35	46	41	36	44	45	45	48	47	46	45	42	46	48	53	57	58	58	61	59	58	61	57	48	45	38	33	24	13	20	68
103	5/6	M-16 live	200-430	T286	6	37	43		41	45	25	46	47	52	52	52	52	50	47	52	52	57	62	60	62	63	60	62	56	52	49	49	42	35	24	26	23	70
103	5/6	M-16 live	200-430	T286	10	37	41		43	42	40	44	44	43	48	48	48	48	47	48	45	46	51	56	66	68	68	60	66	62	54	57	43	42	35	28	13	76
103	5/6	M-16 live	200-430	T286	12	34	38	38	40	39	41	43	44	46	46	46	46	44	40	38	43	46	54	58	56	52	59	56	58	52	50	44	37	31	28	16	13	66
103	5/6	M-16 live	200-430	T286	14	34		38			44	41	44	48	46	45	45	44	39	40	47	51	54	57	52	54	57	49	52	51	44	44	35	29	34	29	26	64
103	5/6	M-16 live	200-430	T286	16			34	40	35	28	40	41	44	47	44	44	43	43	43	45	49	55	61	70	66	69	61	67	58	52	44	39	32	24	16	16	67
103	5/6	M-16 live	200-430	T286	19	41	34		39	38	36	45	43	46	45	45	44	41	40	46	47	51	58	60	65	60	64	66	58	53	49	44	39	34	34	19	19	71
103	5/6	M-16 live	200-430	T286	21	38	38		38	28	39	42	40	44	44	43	46	46	38	49	48	52	57	59	66	66	68	58	52	57	48	43	37	31	22	16		66
103	5/6	M-16 live	200-430	T286	23	41	41	38	32	35		42	39	44	46	42	44	45	39	43	45	51	54	52	56	56	57	59	52	51	48	42	35	29	25	22	13	64
103	5/6	M-16 live	200-430	T286	29	45		47	46	38	44	42	37	48	47	50	52	50	50	52	49	52	61	67	69	70	70	66	61	55	53	55	53	47	34	39	36	77
103	5/6	M-16 live	200-430	T287	3	44	38	44	40	36	47	45	47	51	51	49	47	46	42	46	51	57	60	58	59	60	65	62	58	49	50	54	49	44	31	20		71
103	5/6	M-16 live	200-430	T287	6	37	34		35	36		39	41	47	47	45	46	40	39	47	47	52	57	59	66	66	64	64	60	58	56	55	52	44	36	27	21	73
103	5/6	M-16 live	200-430	T287	20	52	51	49	48	47	43	46	48	53	49	48	49	50	53	48	52	55	63	69	74	72	75	78	66	64	69	63	58	44	36	27	21	52	83
103	5/6	M-16 live	200-430	T288	3	57	54	53	50	50	50	43	50	54	55	54	48	49	41	47	50	54	61	69	71	76	79	79	74	71	67	66	65	58	35	32	52	50	86
103	5/6	M-16 live	200-430	T288	7				43	40	37	42	46	49	50	51	52	52	54	47	45	44	50	56	62	64	62	62	57	54	50	43	38	30	20	23	55	70
103	5/6	M-16 live	200-430	T288	18	38	38		36			45	44	46	49	46	45	44	45	49	45	50	56	58	59	56	57	53	53	50	49	44	36	24	13	17	23	65
103	5/6	M-16 live	200-430	T289	3	34	31	42	41		45	44	42	47	45	44	43	45	44	45	47	51	54	56	58	54	55	56	51	49	46	40	32	29	22	13	16	63
103	5/6	M-16 live	200-430	T289	6	44	40		37		44	42	40	45	43	42	39	44	41	47	45	51	54	55	55	55	54	54	52	52	46	45	43	37	27	16		63
103	5/6	M-16 live	200-430	T289	16	37	38	41	39	28	36	48	44	50	50	47	44	48	44	45	42	52	57	58	60	57	58	54	56	50	52	48	50	33	32	17	20	67
103	5/6	M-16 live	200-430	T289	19	34			42	36	41	38	42	44	43	43	45	41	39	44	46	46	55	52	53	52	52	55	51	46	44	39	27	32	16	16	62
103	5/6	M-16 live	200-430	T289	29	37	42	42	44	40	35	45	45	47	49	48	48	44	42	44	49	50	54	55	57	57	54	52	48	45	43	36	32	24	13	19	64

103	5/6	M-16 live	200-430	T290	2			47	48	49	49	46	42	43	44	47	52	51	57	55	50	48	44	40	36	29	24	17	13	63
103	5/6	M-16 live	200-430	T290	4			46	47	47	47	46	41	41	44	48	50	51	55	52	51	48	44	40	34	29	16		20	61
103	5/6	M-16 live	200-430	T290	12	41	43	51	51	49	51	51	51	51	54	59	63	66	68	67	64	59	59	54	51	47	40	32	27	74
103	5/6	M-16 live	200-430	T291	5	40	34	48	48	44	45	44	45	41	48	48	52	55	55	54	52	48	45	40	30	30	25	13	13	63
103	5/6	M-16 live	200-430	T291	19	48		52	51	49	49	47	42	41	50	53	57	58	59	58	57	53	50	45	35	34	27		23	67
103	5/6	M-16 live	200-430	T291	29	46	35	52	51	47	46	46	41	41	50	53	58	59	58	57	55	53	48	42	33	34	25	13	22	66
103	5/6	M-16 live	200-430	T292	5	42		49	47	44	46	47	46	47	49	54	59	59	59	59	56	54	50	46	37	34	28	13	20	67
103	5/6	M-16 live	200-430	T292	7			46	43	40	40	39	42	41	45	50	53	54	52	52	51	48	45	41	32	28	20			61
103	5/6	M-16 live	200-430	T292	9	37		44	46	44	40	43	40	42	44	49	49	52	52	52	50	49	46	38	28	28	20	16	19	60
103	5/6	M-16 live	200-430	T292	26	45		47	55	54	51	51	49	49	52	55	60	61	60	60	58	55	52	48	43	38	34	34	29	69
103	5/6	M-16 live	200-430	T293	15	83	82	61	63	66	68	67	60	67	63	68	69	73	75	78	78	81	82	80	79	76	76	77	71	92
152	6/8	50 cal live	1000-2000	T964	2	38	40	56	50	40	34	37	32	34	29	25	26	26	20	24	22	10	21	18		17	5			68
152	6/8	50 cal live	1000-2000	T964	6	36	38	54	43	39	34	35	31	29	29	25	27	25	13	21	22		19	19		10	2		2	66
152	6/8	50 cal live	1000-2000	T964	9	33	40	50	42	41	33	34	29	27	27	22	24	24	15	22	27		20	20		13	12		5	63
159	4/20	50 cal live	4000-5000	T685	2	40		54	47	39	43	42	35	37	41	37	40	40	0	35	36		31	32		24	15			59
159	4/20	50 cal live	4000-5000	T685	7	33		53	42	41	39	40	29	34	37	34	36	34	0	31	30		30	28		17	18		15	57
159	4/20	50 cal live	4000-5000	T685	17	45	49	58	58	52	50	49	44	50	47	47	47	45	35	40	40		37	36		29	22		22	66
207	5/5	50 cal live	5000-6000	T1146	10	33		44	37	18	40	40	37	40	50	40	43	41	33	36	34		32	32		21			15	59
267	6/4	50 cal live	2400-4000	T1203	6	51		66	62	62	59	58	56	53	50	46	46	45	32	41	41		38	37		32	23		23	76

Table D 7. Summary data for passive helicopter noise on Fort Stewart, GA, 2000. RCW **response 0 = no visible response, 1 = alert to cavity mouth, and 2 = flush from cavity.**

ter	Date	Nesting Phase & Day	Event Type	Event Dist. (m)	RCW Resp.	Recovery time (min)	Remarks	Mic Pos.	File #	Spec. #	SEL (dB) at mic Flat	A
2	08-May-00	N-1	Helo	201-300	0			Base	T877	30	89.8	66.9
2	08-May-00	N-1	Helo	201-300	0			Base	T878	30	89.8	74.7
2	08-May-00	N-1	Helo	201-300	0			Base	T879	30	87.2	73.2
2	08-May-00	N-1	Helo	301-400	0			Base	T1156	30	87.2	63.2
2	08-May-00	N-1	Helo	201-300	0			Base	T1157	30	90.1	66.0
2	08-May-00	N-1	Helo	201-300	0			Base	T1158	30	92.6	75.8
2	08-May-00	N-1	Helo	201-300	0			Base	T1159	30	88.4	75.5
8	11-May-00	N-6	Helo	30-50				Base	T973	9	114.5	101.5
8	19-May-00	N-14	Helo	30-50				Base	T44	30	101.2	89.9
23	06-Jun-00	I-6	Helo	101-200	0			Base	T589	30	96.2	84.2
23	06-Jun-00	I-6	Helo	51-100	0			Base	T591	30	99.6	84.6
48	13-Apr-00	Pre-nest	Helo	30-50				Base	T477	30	101.7	88.4
48	02-May-00	I-6	Helo	201-300	0			Base	T909	30	89.9	72.7
48	02-May-00	I-6	Helo	201-300	0			Base	T910	30	91.1	74.0
53	17-May-00	I-8	Helo	30-50	0			Base	T558	30	105.6	91.4
53	17-May-00	I-8	Helo	101-200	0			Base	T559	30	95.8	86.5
53	17-May-00	I-8	Helo	201-300	0			Base	T1084	30	90.6	74.4
53	17-May-00	I-8	Helo	101-200	0			Base	T1085	30	96.4	78.7
53	17-May-00	I-8	Helo	51-100	0			Base	T1086	30	98.6	79.1
53	17-May-00	I-8	Helo	201-300	0			Base	T1087	30	89.7	75.1
53	17-May-00	I-8	Helo	301-400	0			Base	T1088	30	83.8	69.4
53	17-May-00	I-8	Helo	201-300	0			Base	T1089	30	90.0	70.4
53	17-May-00	I-8	Helo	201-300	0			Base	T1090	30	90.9	75.9
53	17-May-00	I-8	Helo	101-200	0			Base	T1091	30	96.2	84.5
53	17-May-00	I-8	Helo	30-50	0			Base	T1092	30	103.3	90.7
53	17-May-00	I-8	Helo	201-300	0			Base	T1093	30	90.1	78.8
53	17-May-00	I-8	Helo	201-300	0			Base	T1094	30	90.9	83.7
53	17-May-00	I-8	Helo	201-300	0			Base	T1095	30	89.2	78.9
53	17-May-00	I-8	Helo	201-300	0			Base	T1096	30	89.1	79.5
53	17-May-00	I-8	Helo	301-400	0			Base	T1097	30	85.0	71.5
53	17-May-00	I-8	Helo	101-200	0			Base	T1099	30	94.5	83.8
53	17-May-00	I-8	Helo	101-200	0			Base	T1100	30	95.6	85.4
53	17-May-00	I-8	Helo	301-400	0			Base	T1101	30	84.1	64.0
53	17-May-00	I-8	Helo	201-300	0			Base	T1102	30	89.4	66.8

57	27-Apr-00	N-1	Helo	101-200	0			Base	T466	30	92.8	81.3
57	27-Apr-00	N-1	Helo	51-100	0			Base	T467	30	98.2	89.1
57	27-Apr-00	N-1	Helo	30-50	0			Base	T469	30	100.4	90.6
57	27-Apr-00	N-1	Helo	30-50	0			Base	T470	30	109.6	98.4
57	02-May-00	I-6	Helo	30-50	0			Base	T1974	30	108.2	92.1
57	02-May-00	I-6	Helo	51-100	0			Base	T1975	30	97.3	85.8
60	22-May-00	I-9	Helo	51-100	0			Base	T583	30	99.8	89.0
60	22-May-00	I-9	Helo	201-300	0			Base	T1250	30	89.0	67.8
60	22-May-00	I-9	Helo	51-100	0			Base	T1251	30	100.6	89.7
60	22-May-00	I-9	Helo	51-100	0			Base	T1252	30	97.8	87.1
71	24-May-00	N-16	Helo	201-300				Base	T1	30	90.1	63.5
71	24-May-00	N-16	Helo	30-50				Base	T3	30	102.2	83.3
71	24-May-00	N-16	Helo	101-200				Base	T4	30	96.0	69.8
71	24-May-00	N-16	Helo	51-100				Base	T5	30	99.3	77.7
71	24-May-00	N-16	Helo	30-50				Base	T7	30	101.8	83.6
71	24-May-00	N-16	Helo	30-50				Base	T8	30	102.1	84.1
71	24-May-00	N-16	Helo	30-50				Base	T11	30	101.9	82.5
71	24-May-00	N-16	Helo	101-200				Base	T12	30	95.2	69.2
71	24-May-00	N-16	Helo	101-200				Base	T13	30	96.7	77.3
71	24-May-00	N-16	Helo	51-100				Base	T14	30	99.9	76.7
71	24-May-00	N-16	Helo	30-50				Base	T15	30	101.5	83.9
71	24-May-00	N-16	Helo	51-100				Base	T16	30	98.7	76.5
71	24-May-00	N-16	Helo	51-100				Base	T17	30	98.7	75.0
71	24-May-00	N-16	Helo	51-100				Base	T18	30	98.7	80.1
71	24-May-00	N-16	Helo	101-200				Base	T19	30	96.6	70.4
73	04-May-00	I-9	Helo	51-100	0			Base	T26	30	89.3	75.4
83	15-May-00	N-15	Helo	201-300				Base	T1338	30	91.6	80.2
83	15-May-00	N-15	Helo	301-400				Base	T1339	30	85.8	74.4
83	16-May-00	N-16	Helo	201-300				Base	T63	30	84.4	72.9
121	30-May-00	N-12	Helo	301-400				Base	T1262	30	80.7	57.1
152	07-Jun-00	N-15	Helo	101-200				Base	T83	30	95.7	79.3
152	07-Jun-00	N-15	Helo	101-200				Base	T84	30	97.7	87.4
152	07-Jun-00	N-15	Helo	101-200				Base	T85	30	95.0	83.3
152	07-Jun-00	N-15	Helo	101-200				Base	T87	30	95.0	81.2
152	07-Jun-00	N-15	Helo	101-200				Base	T89	30	93.8	78.7
152	07-Jun-00	N-15	Helo	101-200				Base	T90	30	96.0	82.9
152	08-Jun-00	N-16	Helo	201-300				Base	T961	30	87.2	72.3
152	08-Jun-00	N-16	Helo	301-400				Base	T965	30	84.2	64.9
152	08-Jun-00	N-16	Helo	301-400				Base	T966	30	83.9	71.1
152	08-Jun-00	N-16	Helo	301-400				Base	T967	30	85.5	64.7
152	08-Jun-00	N-16	Helo	301-400				Base	T968	30	85.7	69.3
152	08-Jun-00	N-16	Helo	400-500				Base	T969	30	76.3	60.2

152	08-Jun-00	N-16	Helo	301-400				Base	T970	30	84.8	70.7
152	08-Jun-00	N-16	Helo	301-400				Base	T971	30	84.2	71.1
163	24-May-00	N-15	Helo	101-200				Base	T513	30	95.4	87.9
163	24-May-00	N-15	Helo	101-200				Base	T514	30	94.6	89.2
163	24-May-00	N-15	Helo	51-100				Base	T515	30	98.8	82.2
163	24-May-00	N-15	Helo	201-300				Base	T517	30	90.2	80.2
163	24-May-00	N-15	Helo	201-300				Base	T518	30	89.4	81.8
171	08-May-00	N-5	Helo	201-300	0			Base	T994	30	88.5	74.9
206	24-May-00	I-3	Helo	30-50	0			Base	T308	30	104.2	90.2
206	24-May-00	I-3	Helo	30-50	0			Base	T309	30	103.1	91.7
206	24-May-00	I-3	Helo	30-50	0			Base	T310	30	104.2	91.6
206	25-May-00	I-4	Helo	30-50	0			Base	T298	21	110.4	97.9
206	25-May-00	I-4	Helo	51-100	0			Base	T299	30	98.4	87.5
206	25-May-00	I-3	Helo	301-400	0			Base	T520	30	84.2	74.4
206	25-May-00	I-3	Helo	201-300	0			Base	T521	30	91.4	75.5
206	25-May-00	I-3	Helo	201-300	0			Base	T523	30	87.3	71.9
206	25-May-00	I-3	Helo	201-300	0			Base	T524	30	91.4	81.9
206	25-May-00	I-3	Helo	201-300	0			Base	T525	30	89.9	77.7
206	01-Jun-00	I-10	Helo	30-50	0			Base	T671	30	108.5	90.2
206	05-Jun-00	N-3	Helo	51-100	0			Base	T80	30	97.8	88.2
206	05-Jun-00	N-3	Helo	51-100	0			Base	T81	30	98.5	88.2
207	27-Apr-00	I-1	Helo	201-300	0			Base	T884	30	91.1	79.6
216	08-May-00	N-4	Helo	201-300	0			Base	T790	30	92.0	76.2
222	08-Jun-00	Post-fledg.	Helo	201-300				Base	T1895	30	92.2	83.5
222	08-Jun-00	Post-fledg.	Helo	101-200				Base	T1896	30	96.5	87.3
222	08-Jun-00	Post-fledg.	Helo	30-50				Base	T1897	30	105.0	93.4
222	08-Jun-00	Post-fledg.	Helo	30-50				Base	T1898	30	109.6	97.3

Table D 8. Representative unweighted spectra for passive helicopter flights on Fort Stewart, GA, 2000.

Band SEL (dB) at 1/3 Octave Spectrum Center Frequencies (Hz)

CL	Date	Event Type	Event Dist. (m)	File #	Spec. #	10	13	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Calc. Overall SEL
2	5/8	Helo	201-300	T877	30	54	57	61	83	71	66	84	74	83	81	77	71	66	59	59	59	62	60	57	51	52	51	43	48	47		45	42		37	31		30	13	89.8
2	5/8	Helo	201-300	T878	30	55	64	70	86	71	73	83	71	80	76	74	68	74	77	73	71	68	70	68	64	64	60	59	55	52	37	46	44	16	37	31		30		89.8
2	5/8	Helo	201-300	T879	30	58	67	84	71	69	79	69	72	72	78	65	67	71	70	67	71	68	68	66	66	64	62	59	56	52	37	46	43		37	31		30		87.2
2	5/8	Helo	301-400	T1156	30	53	55	58	79	69	61	82	73	81	78	76	70	66	53	48	51	54	50	45	41	40	40	37	37	38	38	41	45	42	33	26	19			87.2
2	5/8	Helo	201-300	T1157	30	54	56	60	83	72	66	85	75	84	80	77	69	64	66	63	60	61	56	55	49	45	43	39	38	40	40	43	45	41	33	27	10	22	2	90.1
2	5/8	Helo	201-300	T1158	30	56	59	70	88	73	75	87	74	84	77	76	73	76	80	73	71	72	69	67	65	62	59	57	54	48	42	39	42	39	34	31	20	24	8	92.6
2	5/8	Helo	201-300	T1159	30	57	70	85	74	70	79	72	74	69	79	70	73	74	70	69	70	70	70	69	68	66	64	62	58	53	46	38	41	41	35	32	23	25	10	88.4
8	5/11	Helo	30-50	T973	9	98	108	94	99	109	100	102	103	103	100	97	96	98	98	94	94	93	94	92	93	90	88	88	87	85	85	85	84	87	93	84	82	76	53	114.5
8	5/19	Helo	30-50	T44	30	67	77	93	95	82	82	93	84	90	89	90	80	78	78	83	85	86	83	84	83	81	78	76	75	72	69	65	62	59	55	51	48	42	29	101.2
23	6/6	Helo	101-200	T589	30	55	67	92	89	69	85	85	80	77	85	78	72	75	69	73	77	81	81	77	76	74	72	71	68	66	62	58	53	46	45	39		34	23	96.2
23	6/6	Helo	51-100	T591	30	61	73	94	95	76	86	90	83	85	85	81	73	77	78	80	80	77	79	78	77	75	73	71	70	69	65	62	61	58	54	45	27	35	48	99.6
48	4/13	Helo	30-50	T477	30	59	65	84	98	85	83	95	90	90	85	86	82	83	81	77	76	80	82	83	82	79	78	76	72	70	69	64	60	58	56	44	40	36	37	101.7
48	5/2	Helo	201-300	T909	30	52	61	83	86	65	76	82	69	72	79	74	68	70	69	65	65	65	66	66	66	64	62	58	56	53	31	49	45		39	32		32	19	89.9
48	5/2	Helo	201-300	T910	30	54	60	83	87	66	76	84	72	76	80	76	69	74	69	66	66	65	66	67	68	66	64	60	56	54	36	48	46	44	43	41	44	34	16	91.1
53	5/17	Helo	30-50	T558	30	71	73	90	103	83	89	98	92	90	87	86	80	82	82	84	87	86	85	85	84	82	80	79	77	75	72	70	67	56	59	52	44	47	35	105.6
53	5/17	Helo	101-200	T559	30	68	71	84	90	80	80	87	86	82	78	80	78	80	71	75	80	82	83	82	77	77	74	71	70	68	55	63	61	56	53	48	48	43	30	95.8
53	5/17	Helo	201-300	T1084	30	65	64	69	89	71	64	81	76	75	69	69	69	70	64	62	67	68	70	70	68	63	61	60	55	51	49	48	50	51	39	36	26	25	11	90.6
53	5/17	Helo	101-200	T1085	30	62	63	77	95	74	68	85	81	80	72	73	70	72	68	65	69	72	74	74	73	69	67	64	60	57	52	47	48	51	39	37	31	29	15	96.4
53	5/17	Helo	51-100	T1086	30	63	63	81	98	75	73	87	78	77	75	73	73	74	67	68	71	68	75	73	73	71	67	63	60	56	52	48	48	50	39	37	30	29	16	98.6
53	5/17	Helo	201-300	T1087	30	63	60	73	88	66	67	81	78	66	62	67	71	72	64	63	66	68	70	69	69	67	64	60	56	52	48	45	47	50	37	35	22	25	5	89.7
53	5/17	Helo	301-400	T1088	30	56	59	68	80	63	65	77	74	64	63	68	70	67	61	60	64	64	65	64	62	59	56	53	49	46	45	43	48	52	38	32	21	22		83.8
53	5/17	Helo	201-300	T1089	30	65	61	73	89	67	66	81	78	67	61	62	70	67	61	60	62	63	65	65	64	62	59	55	51	48	46	43	47	51	37	34	24	26	8	90.0
53	5/17	Helo	201-300	T1090	30	63	61	71	89	68	67	88	80	67	65	68	75	73	68	66	66	69	71	70	70	68	65	60	56	52	49	47	48	55	44	42	39	31	11	90.9
53	5/17	Helo	101-200	T1091	30	62	61	71	94	78	70	95	82	80	74	76	78	82	73	71	75	77	78	78	77	75	73	75	70	67	68	64	56	55	49	36	36	33	28	96.2
53	5/17	Helo	30-50	T1092	30	71	71	88	101	82	87	95	90	88	86	85	80	82	82	84	86	84	84	85	83	81	80	78	76	75	73	70	67	64	61	57	53	49	45	103.3
53	5/17	Helo	201-300	T1093	30	63	62	73	87	75	67	82	79	66	70	70	76	73	66	65	68	71	73	74	74	71	68	64	61	56	51	46	43	43	36	35	27	27	14	90.1
53	5/17	Helo	201-300	T1094	30	61	64	72	88	68	67	81	76	65	65	70	73	76	71	68	74	77	79	80	78	75	71	67	64	59	54	47	43	44	37	36	33	30	21	90.9
53	5/17	Helo	201-300	T1095	30	63	66	72	88	66	66	77	69	71	66	68	69	69	63	63	68	70	72	73	74	71	68	66	63	59	54	48	44	45	37	35	29	28	14	89.2

Site	Date	Type	Range	ID																																				Value
53	5/17	Helo	201-300	T1096	30	62	66	72	87	69	67	78	76	70	66	71	69	70	64	64	70	72	73	74	73	72	69	66	62	59	54	48	48	48	37	35	28	27	16	89.1
53	5/17	Helo	301-400	T1097	30	57	65	80	81	68	68	74	68	64	66	65	67	64	61	61	62	65	66	67	65	66	63	58	53	50	45	42	48	42	35	30	14	22		85.0
53	5/17	Helo	101-200	T1099	30	58	58	65	89	82	65	87	86	83	77	77	72	80	73	70	74	79	75	78	81	79	72	69	65	63	60	56	52	48	39	35	32	29	24	94.5
53	5/17	Helo	101-200	T1100	30	59	62	87	91	68	82	87	85	76	75	79	75	77	74	77	73	83	75	77	78	75	75	73	75	66	63	59	54	50	42	37	34	32	28	95.6
53	5/17	Helo	301-400	T1101	30	56	57	64	83	68	60	75	71	62	57	60	57	60	54	52	52	58	53	60	60	56	50	50	53	47	41	46	48	41	35	30	14	20		84.1
53	5/17	Helo	201-300	T1102	30	60	59	79	88	72	75	81	72	68	63	64	61	62	59	57	59	61	56	62	62	60	55	52	57	52	48	43	45	47	38	29	14	22		89.4
57	4/27	Helo	101-200	T466	30	58	72	66	74	86	84	78	78	83	81	79	79	84	78	80	80	78	70	75	68	67	66	67	68	66	63	60	56	51	41	37	21	30	15	92.8
57	4/27	Helo	51-100	T467	30	56	64	61	74	91	92	85	85	89	87	78	78	84	82	83	81	79	80	85	79	78	77	74	72	67	66	60	56	64	62	59	60	53	32	98.2
57	4/27	Helo	30-50	T469	30	63	76	71	78	94	91	86	86	90	83	90	90	91	88	81	84	81	80	76	78	78	76	75	74	72	74	72	70	69	62	69	69	62	37	100.4
57	4/27	Helo	30-50	T470	30	70	80	101	104	84	99	90	90	96	93	93	90	98	100	85	85	95	86	83	86	84	80	76	78	78	74	76	80	78	76	86	65	55	50	109.6
57	5/2	Helo	30-50	T1974	30	100	103	84	94	100	93	96	96	93	90	89	88	96	85	98	84	82	83	90	95	84	78	78	79	78	76	76	78	82	82	79	77	72	54	108.2
57	5/2	Helo	51-100	T1975	30	57	65	62	73	94	87	88	88	83	76	76	80	85	73	85	65	61	77	77	75	79	76	69	76	74	72	72	75	63	57	61	59	46	22	97.3
60	5/22	Helo	51-100	T583	30	61	64	83	95	77	78	86	86	90	83	88	85	81	81	73	79	83	78	78	81	81	84	71	74	74	66	60	55	52	41	51	30	38	23	99.8
60	5/22	Helo	201-300	T1250	30	57	57	62	88	73	60	81	74	60	62	66	62	70	65	60	62	60	61	57	58	55	60	67	61	44	42	42	42	36	26	42	36	30	9	89.0
60	5/22	Helo	51-100	T1251	30	58	62	73	96	81	74	89	89	74	82	86	82	86	80	77	84	82	84	85	76	76	72	74	70	66	70	62	56	52	40	51	42	39	36	100.6
60	5/22	Helo	51-100	T1252	30	58	63	86	94	71	80	85	85	71	71	84	82	83	81	81	79	81	79	76	81	79	81	73	77	72	67	74	59	56	40	46	37	34	29	97.8
71	5/24	Helo	201-300	T1	30	76	86	70	69	84	75	75	73	80	84	82	82	83	80	77	81	54	76	79	74	76	71	70	69	47	42	63	55	52	37	50	49	46	22	90.1
71	5/24	Helo	30-50	T3	30	93	93	77	89	95	90	92	88	88	76	77	84	79	87	85	81	77	79	74	76	74	67	57	67	69	66	64	52	56	41	43	41	47	33	102.2
71	5/24	Helo	101-200	T4	30	84	90	74	83	91	81	84	80	89	88	83	83	85	78	85	80	83	74	77	66	61	54	55	61	55	51	49	41	36	26	33	17	37	3	96.0
71	5/24	Helo	51-100	T5	30	86	93	76	86	95	84	85	86	86	85	89	81	86	67	70	77	61	72	66	60	75	71	66	59	57	55	44	48	40	35	35	28	23	19	99.3
71	5/24	Helo	30-50	T7	30	90	92	80	89	96	89	92	88	88	82	82	85	86	80	81	84	76	76	81	85	77	72	67	64	66	66	70	56	53	44	42	40	38	34	101.8
71	5/24	Helo	30-50	T8	30	89	95	82	90	98	86	88	86	87	81	82	82	83	86	79	85	74	79	85	81	81	67	66	64	64	61	57	47	52	45	44	39	40	31	102.1
71	5/24	Helo	30-50	T11	30	87	95	79	88	97	86	91	87	86	84	83	84	84	83	77	84	71	78	79	74	80	72	64	62	62	58	59	44	49	41	37	36	39	28	101.9
71	5/24	Helo	101-200	T12	30	83	89	74	84	88	81	86	84	80	77	81	83	86	78	71	78	73	74	84	75	74	54	75	52	49	47	53	48	44	35	34	24	24	10	95.2
71	5/24	Helo	101-200	T13	30	83	89	73	83	92	84	84	87	83	81	84	82	83	79	75	77	78	76	86	72	61	57	60	61	55	52	51	45	38	38	35	27	28	20	96.7
71	5/24	Helo	51-100	T14	30	88	92	80	88	95	88	89	91	86	84	85	83	84	72	77	76	63	73	66	67	62	60	59	58	59	54	51	41	50	36	52	53	51	27	99.9
71	5/24	Helo	30-50	T15	30	91	94	76	89	96	87	90	90	89	87	84	82	87	79	72	76	71	75	75	75	68	66	64	61	58	55	53	46	42	39	38	37	34	29	101.5
71	5/24	Helo	51-100	T16	30	87	92	76	86	92	87	86	89	85	83	85	77	84	72	75	75	65	67	63	68	63	59	61	59	56	54	53	53	53	44	55	56	53	28	98.7
71	5/24	Helo	51-100	T17	30	84	92	77	85	93	84	87	88	88	82	84	77	84	73	73	74	72	72	64	67	60	59	57	57	51	48	43	39	44	38	34	27	27	15	98.7

Count	Date	Type	Range	ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	Result
71	5/24	Helo	51-100	T18	30	87	91	79	87	92	89	88	87	86	84	81	76	76	80	79	78	75	71	69	67	63	61	58	55	51	47	42	38	36	35	32	31	26	98.7
71	5/24	Helo	101-200	T19	30	84	91	75	85	91	87	85	83	82	79	77	70	67	65	66	66	64	61	58	56	54	52	50	47	43	41	40	35	33	33	22	24	7	96.6
73	5/4	Helo	51-100	T26	30	62	65	81	78	63	72	77	71	83	81	69	73	70	68	66	66	68	61	69	68	65	61	57	52	46	39	38	33	33	34	24	26	12	89.3
83	5/15	Helo	201-300	T1338	30	58	63	60	65	87	78	78	75	81	75	75	79	74	72	71	70	72	68	73	72	71	68	65	62	57	52	44	39	34	34	28	29	18	91.6
83	5/15	Helo	301-400	T1339	30	64	66	63	65	81	84	78	66	76	70	75	73	69	66	65	65	67	67	67	65	65	63	59	55	50	45	40	33	30	30	19	24	10	85.8
83	5/16	Helo	201-300	T63	30	60	63	79	76	62	72	72	72	76	68	70	69	66	65	66	66	67	64	67	62	62	58	54	53	42	44	42	35	32	32	31	30	11	84.4
121	5/30	Helo	301-400	T1262	30	48	52	69	67	59	59	66	65	64	58	65	66	56	57	49	49	50	51	48	46	46	41	38	37	43	43	38	29	23	23	17	18		80.7
152	6/7	Helo	101-200	T83	30	73	73	71	87	69	73	86	84	78	79	74	76	84	76	71	69	69	71	68	72	70	67	63	59	52	48	51	54	42	41	27	31		95.7
152	6/7	Helo	101-200	T84	30	73	71	74	89	86	82	78	80	81	87	86	79	88	82	76	77	80	76	72	74	70	67	62	58	51	51	50	45	38	38	22	34	17	97.7
152	6/7	Helo	101-200	T85	30	74	73	89	88	72	82	84	86	79	86	78	77	79	77	73	71	73	77	74	71	71	67	61	58	50	50	50	43	35	38	13	31	17	95.0
152	6/7	Helo	101-200	T87	30	62	64	86	89	71	79	89	81	86	81	77	76	81	76	76	76	76	76	72	68	68	67	65	56	58	48	46	41	30	36		31		95.0
152	6/7	Helo	101-200	T89	30	64	65	83	89	74	75	85	76	77	77	77	78	77	77	71	73	72	73	71	72	67	65	63	59	49	50	46	40	32	34		31		93.8
152	6/7	Helo	101-200	T90	30	63	67	90	87	69	83	88	81	88	81	76	80	84	80	76	78	76	74	70	74	70	67	67	62	60	49	48	44	30	38		31		96.0
152	6/8	Helo	201-300	T961	30	56	60	70	83	68	67	75	80	71	75	70	70	71	70	69	67	63	67	63	60	57	57	51	48	43	40	40	34	34	28	13	23	10	87.2
152	6/8	Helo	301-400	T965	30	55	59	60	74	76	63	69	75	69	70	73	60	66	60	58	58	57	54	55	51	48	48	44	41	31	34	37	30	24	24		21	2	84.2
152	6/8	Helo	301-400	T966	30	57	63	68	77	67	67	71	74	69	73	71	60	75	66	66	64	64	64	61	58	57	54	49	46	40	39	36	32	26	28	13	22	2	83.9
152	6/8	Helo	301-400	T967	30	57	64	73	82	67	69	79	77	77	72	69	66	65	70	66	65	66	57	57	53	53	54	47	47	39	38	37	30	24	28		22		85.5
152	6/8	Helo	301-400	T968	30	60	66	81	79	66	72	82	84	77	74	73	70	70	63	65	62	63	56	54	51	47	47	45	45	38	41	38	32	26	26		21		85.7
152	6/8	Helo	400-500	T969	30	50	70	61	58	70	58	60	63	72	70	75	58	59	52	52	53	54	57	52	49	45	43	41	41	18	38	40	27	28	39	13	21		76.3
152	6/8	Helo	301-400	T970	30	54	60	74	78	63	71	71	72	67	68	66	67	72	67	63	66	61	61	54	57	57	54	47	47	41	38	34	37	35	28		22	8	84.8
152	6/8	Helo	301-400	T971	30	51	59	67	77	68	71	69	70	66	67	65	66	70	66	64	64	64	64	53	57	53	49	49	46	40	39	38	35	28	28		22	8	84.2
163	5/24	Helo	101-200	T513	30	60	63	79	85	70	72	76	80	74	73	69	75	80	66	65	64	64	69	57	58	54	47	45	39	40	37	40	53	44	44	33	37	24	95.4
163	5/24	Helo	101-200	T514	30	60	61	72	89	69	69	73	79	77	73	66	68	79	77	55	56	56	60	53	51	53	53	41	38	35	38	59	52	49	44	31	38	26	94.6
163	5/24	Helo	51-100	T515	30	68	70	86	98	82	86	83	81	77	83	75	75	84	78	71	69	70	71	73	70	71	69	61	64	41	51	53	44	37	39	36	33	48	98.8
163	5/24	Helo	201-300	T517	30	54	57	57	60	74	82	72	78	70	72	73	68	81	77	69	70	71	71	63	72	70	66	59	64	59	56	51	41	36	37	17	33	17	90.2
163	5/24	Helo	201-300	T518	30	59	60	60	61	71	74	67	71	67	73	69	66	82	75	66	67	67	68	61	72	71	68	65	64	61	57	53	43	45	36	25	33		89.4
171	5/8	Helo	201-300	T994	30	56	60	79	85	72	76	82	78	76	76	83	75	83	68	72	66	76	75	80	72	72	74	68	65	61	53	53	43	41	36	32	33	13	88.5
206	5/24	Helo	30-50	T308	30	69	71	74	86	88	91	89	93	87	88	83	84	77	78	78	79	85	82	84	79	79	78	75	74	72	69	67	63	59	56	51	45	55	104.2
206	5/24	Helo	30-50	T309	30	64	74	80	99	78	89	86	93	93	89	80	81	78	83	77	83	86	86	83	81	79	78	76	74	72	71	69	67	65	62	56	48	44	103.1
206	5/24	Helo	30-50	T310	30	71	80	99	99	85	90	86	90	90	90	78	82	84	81	83	80	80	80	83	81	81	79	78	77	76	75	76	75	73	74	70	62	54	104.2
206	5/25	Helo	30-50	T298	21	74	77	96	108	94	101	97	95	92	89	91	84	95	91	94	88	89	91	91	86	87	88	91	84	82	79	77	76	75	72	72	68	59	110.4
206	5/25	Helo	51-100	T299	30	64	68	85	91	73	80	81	78	94	88	77	80	81	78	79	82	82	79	82	76	76	74	72	72	68	64	60	56	50	45	35	37	42	98.4

206	5/25	Helo	301-400	T520	30	55	56	57	60	74	64	65	68	70	82	69	63	70	62	67	68	64	67	68	68	67	65	61	57	54	40	47	44	20	38	31		28	12	84.2
206	5/25	Helo	201-300	T521	30	55	58	58	65	88	79	64	84	80	81	75	72	76	69	71	68	64	64	67	69	68	65	63	62	60	57	54	49	37	41	33		29		91.4
206	5/25	Helo	201-300	T523	30	54	54	56	61	83	79	63	78	75	79	71	72	72	67	67	64	61	64	65	64	62	60	58	56	56	51	49	45	28	38	30		28	12	87.3
206	5/25	Helo	201-300	T524	30	54	56	57	65	87	83	66	79	80	83	77	71	75	69	73	68	70	76	76	77	73	72	69	67	64	61	61	55	51	49	43	32	32	17	91.4
206	5/25	Helo	201-300	T525	30	51	55	55	61	87	79	63	82	73	78	72	71	76	70	73	69	68	69	71	72	69	66	66	64	62	58	57	52	40	42	34		30	17	89.9
206	6/1	Helo	30-50	T671	30	91	101	87	97	101	96	99	99	98	97	93	92	90	88	84	86	85	84	83	80	79	76	76	75	72	71	69	66	66	65	53	46	42	45	108.5
206	6/5	Helo	51-100	T80	30	61	69	64	70	93	91	79	82	86	85	84	79	76	82	84	84	83	80	82	80	79	77	75	74	73	70	67	65	62	60	57	55	45	25	97.8
206	6/5	Helo	51-100	T81	30	58	63	62	71	94	93	74	85	87	87	84	80	79	80	81	83	83	81	79	81	79	77	76	75	73	71	68	65	63	60	58	55	46	26	98.5
207	4/27	Helo	201-300	T884	30	58	62	80	84	66	74	82	74	78	86	79	71	72	70	69	70	71	73	74	74	72	69	66	61	58	48	50	48	36	41	38	30	31		91.1
216	5/8	Helo	201-300	T790	30	56	67	78	86	71	75	87	75	84	79	76	69	76	77	73	74	70	73	76	68	65	63	60	57	53	42	45	43	25	37	33		29		92.0
222	6/8	Helo	201-300	T1895	30	60	87	78	65	81	77	82	75	77	77	78	71	75	78	82	78	75	76	76	76	73	73	72	70	67	64	63	63	55	52	48	39	36		92.2
222	6/8	Helo	101-200	T1896	30	62	92	79	64	86	75	84	80	78	82	76	80	87	85	84	79	81	79	78	77	76	76	76	73	70	69	68	69	63	61	56	46	39	22	96.5
222	6/8	Helo	30-50	T1897	30	59	84	75	61	72	72	80	76	75	81	84	84	100	103	84	76	71	68	70	77	68	58	61	61	63	56	55	54	48	47	45	36	37	22	105.0
222	6/8	Helo	30-50	T1898	30	61	86	74	63	76	69	85	80	78	90	85	91	108	104	88	81	78	85	78	81	71	69	66	65	66	61	59	60	55	52	51	43	42	33	109.6

Table D 9. Summary data for passive large-caliber live fire events on Fort Stewart, GA, 2000. RCW response 0 = no visible response, 1 = alert to cavity mouth, and 2 = flush from cavity.

Cluster	Date	Nesting Phase & Day	Event Type	Event Dist. (m)	RCW Resp.	Recovery time (min)	Remarks	Mic Pos.	File #	Spec. #	SEL (dB) at mic Flat	A
13	12-May-00	I-7	Blast	12000	0			Base	T708	3	59.4	40.1
13	12-May-00	I-7	Blast	12000	0			Base	T708	14	55.4	54.4
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1111	4	85.9	52.8
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1111	13	87.4	58.4
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1113	4	85.7	55.6
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1114	3	87.3	60.9
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1115	3	82.9	53.9
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1115	15	83.0	49.2
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1115	23	80.7	49.5
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1116	4	90.4	56.4
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1117	2	84.2	58.7
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1117	5	86.9	54.7
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1118	5	82.0	50.8
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1119	1	75.4	52.2
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1119	3	80.7	52.0
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1120	3	82.2	57.0
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1120	7	85.6	52.9
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1121	7	85.5	53.6
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1122	6	85.5	55.4
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1123	1	77.8	56.9
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1123	3	78.1	47.6
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1124	2	80.7	51.2
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1125	5	81.2	52.7
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1126	4	82.8	52.8
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1127	3	82.0	50.1
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1127	22	81.5	50.8
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1127	24	81.0	53.7
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1128	4	84.0	56.9
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1128	11	72.8	52.4
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1128	14	82.7	54.7
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1129	6	77.8	50.3
23	02-Jun-00	I-3	Artillery blast	1000	0			Base	T1129	27	78.6	49.6
23	06-Jun-00	I-7	Artillery blast	6000-8000	0			Base	T586	2	71.6	50.0
23	06-Jun-00	I-7	Artillery blast	6000-8000	0			Base	T586	9	74.7	50.9
23	06-Jun-00	I-7	Artillery blast	6000-8000	0			Base	T586	13	72.2	49.7
23	06-Jun-00	I-7	Artillery blast	6000-8000	0			Base	T588	4	84.3	54.5

23	06-Jun-00	I-7	Artillery blast	6000-8000	0			Base	T588	16	82.8	55.3
39	23-May-00	Not-nesting	Mark-19	3000				Base	T1353	2	68.8	54.8
39	23-May-00	Not-nesting	Mark-19	3000				Base	T1353	27	71.9	55.9
39	23-May-00	Not-nesting	Mark-19	3000				Base	T1358	2	73.9	53.1
39	23-May-00	Not-nesting	Mark-19	3000				Base	T1359	2	76.5	53.2
39	23-May-00	Not-nesting	Mark-19	3000				Base	T1360	2	75.4	54.7
39	23-May-00	Not-nesting	Mark-19	3000				Base	T1361	3	74.3	52.7
39	27-May-00	Not-nesting	Tank blast	3000-6600				Base	T1259	6	86.3	56.3
39	28-May-00	Nestling	Tank blast	1600-6600	0			Base	T296	5	86.6	54.5
39	28-May-00	Nestling	Tank blast	1600-6600	0			Base	T297	4	85.9	55.1
39	16-Jun-00	Nestling	Artillery Impact	1600-2000	0			Base	T501	4	92.2	63.7
39	16-Jun-00	Nestling	Artillery Impact	1600-2000	0			Base	T501	6	80.8	54.0
39	16-Jun-00	Nestling	Artillery Impact	1600-2000	0			Base	T502	2	85.0	59.5
39	16-Jun-00	Nestling	Artillery Impact	1600-2000	0			Base	T503	3	79.7	56.9
39	16-Jun-00	Nestling	Artillery Impact	1600-2000	0			Base	T503	11	100.1	67.3
39	16-Jun-00	Nestling	Artillery Impact	1600-2000	0			Base	T503	16	83.7	65.9
39	16-Jun-00	Nestling	Artillery Impact	1600-2000	0			Base	T503	21	81.7	56.6
39	16-Jun-00	Nestling	Artillery Impact	1600-2000	0			Base	T503	29	110.2	90.9
41	02-Jun-00	I-3	Tank blast	4700-6000	0			Base	T1180	3	72.0	42.6
47	10-Apr-00	Pre-nesting	Tank blast	2500-6600				Base	T841	2	93.7	71.9
47	10-Apr-00	Pre-nesting	Tank blast	2500-6600				Base	T841	15	93.3	72.6
47	10-Apr-00	Pre-nesting	Tank blast	2500-6600				Base	T841	26	94.6	72.6
47	10-Apr-00	Pre-nesting	Tank blast	2500-6600				Base	T842	2	91.4	64.8
47	10-Apr-00	Pre-nesting	Tank blast	2500-6600				Base	T842	13	91.8	65.8
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T480	6	89.8	60.0
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T481	3	89.6	59.3
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T482	5	85.8	57.6
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T482	9	85.9	58.0
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T482	12	86.0	56.9
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T482	27	91.1	60.7
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T483	2	68.0	50.5
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T483	5	64.7	47.2
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T483	7	64.0	47.4
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T483	10	69.6	54.9
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T484	3	92.5	64.4
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T484	13	86.7	60.7
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T484	16	86.6	59.1
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T484	23	87.3	60.6
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T484	27	90.8	61.5

48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T485	5	92.6	64.4
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T485	13	86.6	58.2
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T485	20	89.5	62.3
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T485	25	86.5	60.2
48	13-Apr-00	Pre-nesting	Tank blast	4000-5200				Base	T486	9	80.2	60.4
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1064	3	85.3	58.8
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1064	7	85.6	66.6
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1065	3	88.0	56.9
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1065	7	88.0	58.0
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1065	11	85.7	66.3
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1066	2	85.3	59.8
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1066	23	89.9	67.4
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1067	3	88.4	69.2
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1067	17	85.2	60.8
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1067	24	89.0	68.7
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1068	2	88.2	58.5
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1068	16	86.3	59.2
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1069	3	88.0	58.7
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1069	17	85.7	59.1
48	04-May-00	I-8	Tank blast	4000-5200	0			Base	T1070	26	63.5	51.4
57	19-Apr-00	I-3	Artillery blast	6000-8000	0			Base	T579	3	73.7	43.9
57	19-Apr-00	I-3	Artillery blast	6000-8000	0			Base	T579	21	73.6	44.5
81	01-Jun-00	I-5	Tank blast	4500-6000	0			Base	T1264	4	78.7	43.1
81	01-Jun-00	I-5	Tank blast	4500-6000	0			Base	T1265	3	77.8	43.0
81	01-Jun-00	I-5	Tank blast	4500-6000	0			Base	T1266	4	80.4	43.4
81	01-Jun-00	I-5	Tank blast	4500-6000	0			Base	T1267	3	77.2	41.3
81	01-Jun-00	I-5	Tank blast	4500-6000	0			Base	T1268	5	80.0	41.1
81	02-Jun-00	I-6	Tank blast	4500-6000	0			Base	T1178	3	68.5	44.7
82	24-May-00	I-3	Simulator	100	0			Base	T541	3	77.8	63.4
83	16-May-00	N-16	Tank blast	6800-7400	0			Base	T48	3	87.2	59.0
83	16-May-00	N-16	Tank blast	6800-7400	0			Base	T66	9	66.4	49.2
83	16-May-00	N-16	Tank blast	6800-7400	0			Base	T68	3	69.0	47.4
83	16-May-00	N-16	Tank blast	6800-7400	0			Base	T68	6	71.0	54.5
83	16-May-00	N-16	Tank blast	6800-7400	0			Base	T68	9	71.1	55.6
83	16-Jun-00	Post-fledgling	Artillery blast	0				Base	T1187	13	87.2	72.6
83	16-Jun-00	Post-fledgling	Artillery blast	0				Base	T1187	19	89.4	77.6
83	16-Jun-00	Post-fledgling	Artillery blast	0				Base	T1187	28	93.4	72.4
83	16-Jun-00	Post-fledgling	Artillery blast	0				Base	T1187	30	87.6	62.4
83	16-Jun-00	Post-fledgling	Artillery blast	0				Base	T1188	2	93.5	72.2
83	16-Jun-00	Post-fledgling	Artillery blast	0				Base	T1188	5	89.1	63.0

83	16-Jun-00	Post-fledgling	Artillery blast	0					Cav	T1192	20	98.2	82.2
83	16-Jun-00	Post-fledgling	Artillery blast	0					Cav	T1192	25	91.5	75.7
83	16-Jun-00	Post-fledgling	Artillery blast	0					Cav	T1192	28	98.1	81.8
83	16-Jun-00	Post-fledgling	Artillery blast	0					Cav	T1192	30	90.4	72.8
83	16-Jun-00	Post-fledgling	Artillery blast	0					Cav	T1193	2	98.1	81.8
83	16-Jun-00	Post-fledgling	Artillery blast	0					Cav	T1193	5	91.2	72.8
84	04-May-00	N-4	20 mm	2000	0				Base	T306	7	69.2	55.2
84	04-May-00	N-4	20 mm	2000	0				Base	T306	12	69.8	58.6
84	04-May-00	N-4	20 mm	2000	0				Base	T307	2	70.2	56.4
84	04-May-00	N-4	20 mm	2000	0				Base	T307	5	68.7	55.0
84	04-May-00	N-4	20 mm	2000	0				Base	T307	9	69.8	56.5
84	04-May-00	N-4	20 mm	2000	0				Base	T307	14	69.8	54.3
99	28-May-00	N-22	Artillery Impact	2000					Base	T505	2	81.8	54.1
99	28-May-00	N-22	Tank blast	4400-8600					Base	T506	6	84.6	56.4
99	23-May-00	N-17	Mark-19	2500					Base	T1363	3	62.1	50.0
99	23-May-00	N-17	Mark-19	2500					Base	T1366	3	75.0	56.4
99	23-May-00	N-17	Mark-19	2500					Base	T1367	2	79.7	56.4
107	09-Jun-00	Post-fledgling	Artillery blast	2000					Base	T1913	3	92.1	62.5
107	09-Jun-00	Post-fledgling	Artillery blast	2000					Cav	T1914	3	91.9	69.2
121	30-May-00	N-12	Artillery blast	4000					Base	T1261	5	78.4	49.1
159	10-Apr-00	Pre-nesting	Tank blast	2600-6400					Base	T848	3	98.1	82.9
159	10-Apr-00	Pre-nesting	Tank blast	2600-6400					Base	T848	7	89.3	67.5
159	10-Apr-00	Pre-nesting	Tank blast	2600-6400					Base	T848	11	98.9	80.6
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T681	3	92.0	54.2
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T681	17	92.7	54.3
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T682	3	92.3	54.4
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T683	2	93.6	64.1
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T684	3	94.1	63.0
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T686	3	94.7	70.4
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T687	4	95.2	67.6
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T688	2	96.1	68.4
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T689	3	96.4	68.5
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T690	2	96.3	70.1
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T691	2	96.5	67.4
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T692	3	93.2	56.0
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T693	3	90.7	55.9
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T694	2	89.8	53.4
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T694	14	90.1	53.4
159	20-Apr-00	I-1	Tank blast	2600	0				Base	T695	2	88.7	54.1

159	20-Apr-00	I-1	Tank blast	2600	0			Base	T696	2	87.4	49.8
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T697	2	87.9	53.3
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T698	3	91.0	55.0
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T699	3	89.4	54.9
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T699	13	89.8	54.6
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T700	2	89.1	54.1
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T701	3	85.1	50.6
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T701	24	84.6	49.9
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T702	3	88.6	53.2
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T703	2	88.0	50.0
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T703	25	87.5	50.5
159	20-Apr-00	I-1	Tank blast	2600	0			Base	T704	2	92.0	57.8
162	20-Apr-00	I-2	Impact	4000-5000	0			Base	T1105	5	74.3	40.4
172	28-Apr-00	I-5	C-4	100	0			Base	T493	4	97.8	92.4
172	28-Apr-00	I-5	C-4	100	0			Base	T494	3	98.5	94.4
183	28-Apr-00	N-0	C-4 blast from cluster 172	1600	0			Base	T952	3	72.9	54.3
183	28-Apr-00	N-0	C-4 blast from cluster 172	1600	0			Base	T953	3	74.5	53.7
206	30-May-00	I-8	Artillery blast	2500-3500	0			Base	T1176	4	80.7	53.2
206	30-May-00	I-8	Artillery blast	2500-3500	0			Base	T1176	18	82.0	51.5
267	28-May-00	I-5	Tank blast	2400-4000	0			Base	T314	2	73.1	57.3
267	28-May-00	I-5	Tank blast	2400-4000	0			Base	T314	6	93.2	60.7
267	28-May-00	I-5	Tank blast	2400-4000	0			Base	T315	6	90.5	56.1
267	28-May-00	I-5	Tank blast	2400-4000	0			Base	T316	5	91.1	57.3
267	28-May-00	I-5	Tank blast	2400-4000	0			Base	T317	5	92.5	61.2
267	28-May-00	I-5	Tank blast	2400-4000	0			Base	T318	5	88.9	56.3
267	28-May-00	I-5	Tank blast	2400-4000	0			Base	T319	2	75.4	50.8
267	28-May-00	I-5	Tank blast	2400-4000	0			Base	T319	5	93.1	64.9
267	28-May-00	I-5	Tank blast	2400-4000	0			Base	T320	6	92.4	63.8
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T28	7	94.1	61.6
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T28	16	86.1	71.3
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T28	19	94.1	61.7
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T29	8	92.3	59.6
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T29	14	75.0	65.6
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T29	20	91.2	58.8
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T30	3	78.7	66.1
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T30	7	92.8	62.5
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T31	4	79.6	68.8
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T31	9	93.4	62.7
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T31	20	86.2	70.3
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T31	23	93.2	60.6

267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T32	7	94.7	61.7
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T33	3	86.5	69.4
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T33	6	93.0	57.5
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T34	4	74.0	62.5
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T34	9	91.4	58.7
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T34	19	88.7	60.4
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T35	8	93.3	57.9
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T36	3	86.5	66.8
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T36	6	96.8	62.0
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T36	17	96.3	58.6
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T37	7	91.9	57.1
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T38	4	85.1	68.1
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T38	7	92.9	60.2
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T39	6	91.3	65.3
267	30-May-00	I-7	Tank blast	2400-6000	0			Base	T40	4	92.5	60.0
267	31-May-00	I-8	Blast	2400-6000	0			Base	T761	8	90.4	64.7
267	31-May-00	I-8	Blast	2400-6000	0			Base	T761	18	89.6	64.2
267	31-May-00	I-8	Blast	2400-6000	0			Base	T762	8	91.6	62.4
267	31-May-00	I-8	Blast	2400-6000	0			Base	T763	4	86.6	60.9
267	31-May-00	I-8	Blast	2400-6000	0			Base	T763	17	88.1	60.5
267	31-May-00	I-8	Blast	2400-6000	0			Base	T764	6	89.1	64.2
267	31-May-00	I-8	Blast	2400-6000	0			Base	T765	6	92.0	61.3
267	31-May-00	I-8	Blast	2400-6000	0			Base	T766	7	90.5	61.2
267	31-May-00	I-8	Blast	2400-6000	0			Base	T767	2	82.3	68.0
267	31-May-00	I-8	Blast	2400-6000	0			Base	T767	6	89.9	61.5
267	31-May-00	I-8	Blast	2400-6000	0			Base	T768	3	90.5	63.6
267	31-May-00	I-8	Blast	2400-6000	0			Base	T768	18	90.4	64.6
267	31-May-00	I-8	Blast	2400-6000	0			Base	T769	5	92.1	62.9
267	31-May-00	I-8	Blast	2400-6000	0			Base	T770	5	89.8	60.9
267	31-May-00	I-8	Blast	2400-6000	0			Base	T771	5	89.8	61.5
267	31-May-00	I-8	Blast	2400-6000	0			Base	T772	7	91.1	64.4
267	31-May-00	I-8	Blast	2400-6000	0			Base	T773	7	89.8	63.8
267	31-May-00	I-8	Blast	2400-6000	0			Base	T774	7	95.4	68.0
267	01-Jun-00	I-9	Tank blast	2400-6000	0			Base	T849	5	91.1	63.5
267	01-Jun-00	I-9	Tank blast	2400-6000	0			Base	T850	5	91.2	63.1
267	01-Jun-00	I-9	Tank blast	2400-6000	0			Base	T851	3	92.5	63.2
267	01-Jun-00	I-9	Tank blast	2400-6000	0			Base	T852	7	93.7	64.4
267	01-Jun-00	I-9	Tank blast	2400-6000	0			Base	T853	5	92.0	59.5
267	01-Jun-00	I-9	Tank blast	2400-6000	0			Base	T854	3	92.4	64.2

267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T855	2	84.9	60.8
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T856	8	91.5	63.1
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T857	5	90.0	59.7
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T858	6	90.2	60.0
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T859	3	92.6	64.2
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T859	23	92.3	61.0
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T860	5	90.1	60.2
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T861	2	81.4	63.5
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T861	6	89.2	63.3
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T862	7	88.2	60.2
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T863	8	91.0	63.9
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T864	5	89.7	63.6
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T865	4	88.8	61.3
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T866	7	91.2	61.3
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T867	6	91.0	64.3
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T868	2	81.2	65.0
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T868	5	89.2	61.2
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T869	2	90.5	61.8
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T870	2	86.2	72.2
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T870	8	91.4	62.8
267	01-Jun-00	I-9	Tank blast	2400-6000	0				Base	T871	7	92.2	65.1
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T709	7	102.5	74.1
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T710	7	98.1	71.7
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T711	7	99.2	72.6
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T712	2	90.4	75.8
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T712	5	97.7	70.2
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T713	3	88.5	64.9
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T714	7	87.9	65.4
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T715	6	93.2	65.6
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T716	5	94.3	66.0
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T716	15	90.9	64.9
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T716	23	79.2	65.8
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T716	26	93.5	65.7
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T717	2	85.0	69.4
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T717	5	90.5	65.3
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T718	3	82.3	67.1
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T718	6	95.3	67.8
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T718	27	94.9	67.5
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T719	5	95.3	68.2
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T720	8	92.6	64.8

267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T721	6	93.2	62.3
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T722	3	84.4	68.2
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T722	8	93.5	65.0
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T723	4	91.8	64.3
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T724	8	93.9	67.3
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T725	5	93.3	67.0
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T726	7	89.6	64.4
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T726	18	89.9	63.6
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T727	6	89.9	63.8
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T728	3	81.7	65.0
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T728	6	91.1	64.9
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T728	12	82.5	65.1
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T728	15	90.9	63.9
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T729	3	76.7	65.2
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T729	6	94.8	64.7
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T730	2	93.8	65.1
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T730	21	94.5	66.3
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T731	7	95.7	65.5
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T732	5	91.7	64.6
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T732	8	93.0	65.1
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T732	25	91.4	64.8
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T733	5	94.3	64.3
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T734	4	93.7	63.4
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T734	25	88.4	71.3
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T734	28	94.0	66.1
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T735	5	92.4	61.3
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T736	6	92.5	64.2
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T737	3	83.1	70.9
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T737	9	92.4	63.2
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T738	7	94.8	65.9
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T739	6	90.4	63.8
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T740	3	94.0	65.6
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T741	2	93.9	64.8
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T742	9	94.3	66.4
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T743	8	93.7	66.6
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T744	3	89.8	64.5
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T744	10	93.4	66.4
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T744	16	86.7	72.1
267	02-Jun-00	I-10	Blast	2400-6000	0			Base	T744	20	95.4	67.7

267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T745	8	90.7	64.4
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T746	8	91.9	65.5
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T747	6	92.3	64.6
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T748	2	81.5	68.3
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T748	6	94.9	66.8
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T748	23	83.7	66.6
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T748	27	96.1	69.0
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T749	2	83.6	68.3
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T749	5	97.0	69.3
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T750	4	95.1	69.1
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T750	18	95.6	70.2
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T751	6	84.5	63.5
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T752	2	78.5	62.0
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T752	6	84.1	64.1
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T752	25	78.0	61.7
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T753	2	86.3	71.5
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T753	6	91.5	64.6
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T754	5	93.5	62.1
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T755	5	92.7	61.5
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T756	5	89.5	64.9
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T756	23	90.1	61.8
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T757	6	87.8	63.5
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T758	6	89.5	62.1
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T759	7	90.4	65.0
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T760	6	84.8	64.3
267	02-Jun-00	I-10	Blast	2400-6000	0				Base	T760	28	85.0	61.8
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1199	1	82.0	67.8
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1199	5	100.2	75.0
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1199	25	100.3	74.6
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1200	10	100.0	72.5
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1200	23	99.9	73.4
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1201	3	84.7	68.7
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1201	7	99.6	72.7
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1202	3	84.9	63.7
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1202	13	92.1	68.1
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1202	16	100.7	75.1
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1204	3	89.0	67.4
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1204	6	99.3	72.8
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1205	6	100.4	74.6
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1206	5	94.9	63.4

267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1207	7	100.9	75.7
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1208	5	94.7	62.3
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1209	6	94.7	61.4
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1210	5	94.4	60.7
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1211	6	94.3	61.9
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1212	5	94.1	61.3
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1213	8	100.8	72.8
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1214	5	100.0	71.7
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1214	14	83.1	63.0
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1214	17	100.1	71.4
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1215	6	99.4	75.5
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1215	26	97.7	70.1
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1216	4	99.0	69.6
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1217	8	98.4	69.1
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1218	6	96.7	67.6
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1219	5	95.3	66.2
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1219	16	95.2	70.4
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1220	7	92.8	61.3
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1221	5	92.7	58.9
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1221	19	93.0	59.2
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1222	8	93.3	60.6
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1223	7	90.5	58.7
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1224	8	91.4	60.0
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1225	2	82.0	66.2
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1225	6	91.0	57.7
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1225	22	91.6	55.0
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1226	3	84.7	71.2
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1226	9	93.3	62.1
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1227	9	92.5	61.0
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1228	2	91.4	57.9
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1229	2	87.0	71.6
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1229	5	91.8	61.8
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1229	14	83.7	69.0
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1229	17	92.4	61.9
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1230	5	94.3	59.8
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1230	13	93.9	60.3
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1231	7	91.5	54.9
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1231	23	94.0	60.8
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1232	7	92.0	58.2

267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1233	8	92.8	59.4
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1234	6	95.2	65.6
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1235	2	88.3	73.2
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1235	8	90.6	52.8
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1235	20	91.6	57.2
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1236	5	91.7	58.6
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1236	17	92.7	59.6
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1237	4	93.3	58.8
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1238	3	84.8	67.4
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1238	6	94.0	59.0
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1238	13	81.9	65.1
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1238	16	93.8	59.4
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1239	6	95.1	63.2
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1240	7	92.1	57.2
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1240	20	91.7	56.0
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1241	8	92.6	60.7
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1241	26	95.9	64.8
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1242	4	94.7	63.4
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1243	7	94.0	56.7
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1244	3	84.0	69.9
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1244	6	93.2	59.6
267	04-Jun-00	N-1	Tank blast	2400-4000	0				Base	T1245	4	93.2	60.7
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T782	7	72.7	53.2
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T782	17	73.9	53.5
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T783	3	70.5	57.8
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T783	6	72.7	53.0
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T783	18	69.9	57.8
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T783	21	72.5	53.2
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T784	7	74.7	54.2
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T784	28	74.7	54.0
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T785	7	74.9	54.4
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T786	6	76.0	55.1
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T786	19	65.9	53.2
267	07-Jun-00	N-4	Tank blast	2400-6000	0				Base	T786	22	75.8	55.8
267	08-Jun-00	N-5	Impact	1000-2000	0				Base	T76	4	79.7	54.3
267	08-Jun-00	N-5	Impact	1000-2000	0				Base	T77	4	83.3	54.1
267	08-Jun-00	N-5	Impact	1000-2000	0				Base	T77	7	81.2	50.1
267	08-Jun-00	N-5	Impact	1000-2000	0				Base	T77	15	82.2	55.6
267	08-Jun-00	N-5	Impact	1000-2000	0				Base	T77	18	82.9	54.3
267	08-Jun-00	N-5	Impact	1000-2000	0				Base	T78	4	79.6	53.2

267	08-Jun-00	N-5	Impact	1000-2000	0			Base	T78	18	85.7	57.5
267	16-Jun-00	N-13	Blast	2400-6000				Base	T775	1	82.9	62.5
267	16-Jun-00	N-13	Blast	2400-6000				Base	T775	5	91.4	66.6
267	16-Jun-00	N-13	Blast	2400-6000				Base	T775	7	85.5	60.9
267	16-Jun-00	N-13	Blast	2400-6000				Base	T776	4	96.2	72.8
267	16-Jun-00	N-13	Blast	2400-6000				Base	T776	8	96.6	71.5
267	16-Jun-00	N-13	Blast	2400-6000				Base	T777	2	97.7	73.6
267	16-Jun-00	N-13	Blast	2400-6000				Base	T778	2	87.2	65.6
267	16-Jun-00	N-13	Blast	2400-6000				Base	T779	2	89.1	66.4
267	16-Jun-00	N-13	20 mm	5500				Base	T780	8	82.2	64.5
267	16-Jun-00	N-13	20 mm	5500				Base	T780	12	83.9	65.9
267	16-Jun-00	N-13	Impact	6400				Base	T781	5	100.6	75.0

Table D 10. Representative unweighted noise spectra for passive large-caliber live fire events on Fort Stewart, GA, 2000.

CL	Date	Event Type	Event File #	Dist. (m)	Spec. #	10	13	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Calc. Overall SEL
13	5/12	Blast	T708	12000	3	42	44	49	52	52	50	43	45	48	48	50	48	41	38	34	35	34	33	30	24	26	24	9	24	22		24	27	19	19	13		2		59
13	5/12	Blast	T708	12000	14	44	36	39	40	39	37	35	34	37	34	32	26	27	30	32	29	20	25	22	14	21	22	21	22	32	44	43	49	50	46	28	26	22	4	55
23	6/2	Art.	T1111	1000	4	80	81	78	73	77	72	73	68	64	64	64	61	58	53	46	42	34	40	40	35	37	37	29	32	33		31	26		22	17		17		86
23	6/2	Art.	T1111	1000	13	79	81	78	72	77	75	75	77	73	70	70	66	62	55	50	45	38	41	41	36	40	39	30	35	36	22	33	32		25	14		18		87
23	6/2	Art.	T1113	1000	4	79	78	72	76	77	72	75	76	70	68	74	63	60	52	44	42	33	35	36	34	34	34	30	33	38	37	31	26		20	14		17		86
23	6/2	Art.	T1114	1000	3	74	76	77	77	80	77	76	74	79	74	74	70	62	58	51	48	41	41	39	33	39	37	30	35	33	20	30	28	19	23	20	11	19		87
23	6/2	Art.	T1115	1000	3	72	73	76	69	73	76	71	71	72	64	65	64	58	51	45	42	36	38	38	34	35	36	27	32	33		30	24		23	17	17			83
23	6/2	Art.	T1115	1000	15	74	78	76	73	69	66	73	64	61	63	57	54	50	42	37	39	33	41	41	40	39	36		32	31		29	25		21	17				83
23	6/2	Art.	T1115	1000	23	72	72	76	69	63	70	71	66	66	62	58	59	54	47	42	39	25	36	37	31	34	33	32	29	30		26	27		20	20		20		81
23	6/2	Art.	T1116	1000	4	82	83	82	76	82	84	80	73	71	68	66	64	62	57	46	42	38	39	40	34	39	37	31	34	34	28	31	30	19	24	22		14		90
23	6/2	Art.	T1117	1000	2	39	47	61	68	68	70	80	78	73	73	74	67	56	52	43	38	32	37	36	30	35	35	32	31	32	25	30	29		20	17		18		84
23	6/2	Art.	T1117	1000	5	73	80	83	75	78	72	66	70	70	70	65	66	54	48	41	41	36	39	40	29	38	36	28	35	34	23	31	29		25	17		17		87
23	6/2	Art.	T1118	1000	5	67	75	73	77	76	68	66	62	64	63	63	58	55	46	41	40	33	40	39	33	39	38	29	34	34		30	32		21	22		17		82
23	6/2	Art.	T1119	1000	1	39	53	60	63	63	63	71	66	65	61	64	62	58	52	42	38	32	35	34	33	35	34	18	32	30	20	30	29		23	18				75
23	6/2	Art.	T1119	1000	3	72	70	69	67	76	71	69	67	67	62	64	61	58	50	44	40	33	37	37	35	35	34	29	29	31		30	32		22	14		16		81
23	6/2	Art.	T1120	1000	3	72	70	71	75	71	73	72	70	70	66	69	66	64	55	47	44	36	39	39	35	38	38	33	35	35	14	34	34		30	27				82
23	6/2	Art.	T1120	1000	7	79	82	78	68	70	71	69	66	66	66	66	62	55	49	40	39	32	39	38	30	37	36	26	33	33		35	35		28	25				86
23	6/2	Art.	T1121	1000	7	76	80	79	75	72	77	73	70	69	64	64	64	57	51	42	41	34	40	39	32	37	38	32	33	34	23	30	28		23	16		19		86
23	6/2	Art.	T1122	1000	6	79	80	76	73	71	73	76	73	68	70	70	63	59	49	43	41	36	40	39	35	37	37	27	33	33		30	28		26	16		22		85
23	6/2	Art.	T1123	1000	1	35	41	49	55	64	66	67	72	70	66	70	69	60	52	42	41	31	33	34	31	34	32	28	31	30		27	29		24	11				78
23	6/2	Art.	T1123	1000	3	70	70	64	70	71	69	68	64	65	59	57	53	52	45	40	39	34	37	36	26	36	33	23	30	30	23	28	26		23			19		78
23	6/2	Art.	T1124	1000	2	72	73	76	68	69	67	71	68	65	63	65	60	55	47	41	40	31	40	38	33	38	37	25	33	32	23	29	27		21	18		16	17	81
23	6/2	Art.	T1125	1000	5	72	74	74	71	72	70	74	71	66	64	62	62	56	48	43	39	32	38	38	35	37	39	22	34	34	11	31	29		23	16		18		83
23	6/2	Art.	T1126	1000	4	76	73	74	69	74	74	74	67	66	64	62	59	52	47	41	41	33	37	36	30	35	37	16	35	34		30	28		19	17		16		82
23	6/2	Art.	T1127	1000	3	75	77	75	70	72	64	65	66	65	65	61	58	55	49	43	40	34	40	39	31	38	38	28	33	33		26	24		22	16				81
23	6/2	Art.	T1127	1000	22	75	74	75	71	69	67	71	66	64	61	62	62	55	49	42	42	34	38	31	25	38	37	25	34	33		30	28		24	17		16		81
23	6/2	Art.	T1127	1000	24	68	66	65	73	72	69	74	70	71	65	65	62	56	49	42	39	34	38	35	33	35	36		30	31	26	26	23		19	11		11		81

23	6/2	Art.	1000	T1128	4	76	71	68	72	78	71	74	74	74	71	65	58	51	44	42	36	39	39	34	38	38	31	34	36	23	33	26		25	18	16	84
23	6/2	Art.	1000	T1128	11	48	49	60	59	54	54	60	62	67	66	64	54	46	41	41	32	40	39	34	38	37	26	34	32	22	28	28		23	20	11	73
23	6/2	Art.	1000	T1128	14	70	64	69	70	78	73	68	75	72	67	62	60	51	43	40	32	40	34	33	38	37	27	34	33	14	31	28		23	19	14	83
23	6/2	Art.	1000	T1129	6	70	68	67	70	65	62	67	62	67	67	56	52	45	41	40	33	38	33	32	37	38	25	35	32	11	31	28		20	16		78
23	6/2	Art.	1000	T1129	27	70	71	72	68	65	60	64	70	70	62	56	52	41	40	41	32	40	39	35	38	37	32	35	34		30	28		17	14	19	79
23	6/6	Art.	6000	T586	2	48	55	61	52	60	64	63	66	65	63	58	52	48	45	43	36	41	44	33	36	35		30	30		32	33		18			72
23	6/6.	Art.	6000	T586	9	51	61	56	61	64	69	69	65	62	58	57	52	47	46	45	35	44	42	35	40	37		35	37		33	32	27	27	15		75
23	6/6	Art.	6000	T586	13	52	56	54	56	63	63	67	63	64	58	53	46	46	45	42	31	43	43	36	40	35		36	35	29	35	33		23	20	22	72
23	6/6	Art.	6000	T588	4	76	78	78	74	72	70	71	72	69	62	58	58	52	47	45	37	44	43	37	42	36		36	36		31	31		24	21	21	84
23	6/6	Art.	6000	T588	16	75	74	74	69	73	72	74	70	68	63	58	58	54	49	46	41	45	44	39	42	39		39	39		34	34		28	24	24	83
39	5/23	Mark-19	3000	T1353	2	34	43	46	48	49	47	47	54	56	61	61	59	54	46	48	52	46	42	39	42	35	34	39	34	34	43	41		21	12		69
39	5/23	Mark-19	3000	T1353	27			38	46	48	53	48	56	56	57	63	59	54	46	44	49	45	42	37	35	37	27	31	35	31	31	28		20	15		72
39	5/23	Mark-19	3000	T1358	2	59	60	66	67	68	64	61	57	55	62	54	56	50	49	50	48	47	44	39	35	33		32	32		33	29		23	23	12	74
39	5/23	Mark-19	3000	T1359	2	57	62	66	71	71	68	60	62	57	58	56	56	50	49	49	48	49	45	42	34	34	30	34	33		31	31		25	18		77
39	5/23	Mark-19	3000	T1360	2	57	63	66	69	70	66	59	59	59	59	59	59	53	52	49	46	49	46	41	36	35	18	36	35		30	30		28	15	15	75
39	5/23	Mark-19	3000	T1361	3	57	63	65	68	68	64	64	58	51	51	52	52	50	51	48	47	47	40	37	40	41		34	33		30	30		21	18		74
39	5/27	Blast	3000	T1259	6	83	81	76	71	70	70	66	64	66	62	66	56	57	54	51	50	47	47	40	43	40	25	28	35	29	28	25	29	22	17		86
39	5/28	Blast	1600	T296	5	83	82	76	68	63	63	63	64	66	60	59	55	57	54	49	47	46	43	39	40	45	30	33	34		29	29	16	26	19	20	87
39	5/28	Blast	1600	T297	4	84	80	66	66	66	69	68	71	71	66	59	56	57	52	49	48	45	43	35	39	48		32	34		28	28		26	19	21	86
39	6/16	Art.	1600	T501	4	79	77	78	83	85	86	85	78	81	70	65	57	62	54	52	49	43	49	43	48	44		41	44		41	39		35	34		92
39	6/16	Art.	1600	T501	6	54	58	69	72	75	74	72	69	71	53	48	43	43	32	45	32	44	28	28	44	40		42	41		34	34		36	34	25	81
39	6/16	Art.	1600	T502	2	59	65	69	69	77	75	80	77	72	64	60	54	54	53	48	48	51	49	40	40	43	31	44	45		40	42		34	27		85
39	6/16	Art.	1600	T503	3	60	62	67	72	70	73	71	75	65	57	54	48	49	51	51	43	50	48	41	44	42		41	41	22	41	41		34	28	22	80
39	6/16	Art.	1600	T503	11	76	87	88	97	90	90	89	87	86	75	70	65	61	59	49	56	55	52	49	48	48		45	48		43	45	29	39	36	32	100
39	6/16	Art.	1600	T503	16	60	63	68	76	75	77	76	72	82	57	57	43	51	49	49	39	49	46	46	47	43		42	43	33	41	42		33	34	27	84
39	6/16	Art.	1600	T503	21	63	64	68	74	73	73	72	75	64	59	59	46	49	50	50	41	48	48	38	46	43		42	42	34	42	41		34	33		82
39	6/16	Art.	1600	T503	29	99	102	103	104	102	98	99	96	93	90	88	84	85	83	82	81	81	81	80	79	77	74	75	75	74	75	75	75	73	72	63	110
41	6/2	Blast	4700	T1180	3	64	65	65	61	58	58	62	59	55	50	49	41	40	42	39	35	41	32	29	27	24	15	20	24		20	20	17	17	11	8	72

47	4/10	Blast	2500	T841	2	76	85	86	87	86	83	80	79	78	77	75	73	71	68	68	67	68	66	62	58	52	47	43	40	37	37	35	32	33	32	28	32	25	94
47	4/10	Blast	2500	T841	15	73	83	89	86	85	80	77	78	77	75	72	71	69	69	69	68	67	65	59	53	49	44	41	37	37	36	33	30	32	33	28	32	25	93
47	4/10	Blast	2500	T841	26	78	82	88	90	86	82	78	77	76	75	73	71	70	68	68	67	68	64	59	54	50	47	44	41	38	36	34	32	34	29	32	32	26	95
47	4/10	Blast	2500	T842	2	82	82	82	82	79	77	78	76	75	69	66	60	60	59	59	60	59	56	52	45	39	36	36	34	36	33	32	30	32	22	31	30	19	91
47	4/10	Blast	2500	T842	13	83	84	77	83	83	81	81	78	77	69	64	60	60	62	61	60	59	54	48	41	37	37	36	34	33	31	33	31	33	23	31	31	21	92
47	4/10	Blast	4000	T480	6	72	74	85	82	82	79	74	71	69	66	66	63	60	58	53	54	52	50	47	43	42	39	35	33	28	27	22	19	22	21	11	18	14	90
48	4/13	Blast	4000	T481	3	71	76	86	85	80	79	72	69	67	66	60	58	58	55	51	52	51	47	44	42	36	34	30	28	28	25	21	18	16	11	11	15		90
48	4/13	Blast	4000	T482	5	69	75	79	80	79	74	70	69	60	66	58	58	55	52	52	51	50	44	40	39	33	35	24	26	25	21	21	15	18	9	21	13		86
48	4/13	Blast	4000	T482	9	69	75	79	80	80	75	70	71	63	66	56	60	56	51	52	51	50	40	40	34	31	36	24	26	25	19	15	15	11	8	15	9		86
48	4/13	Blast	4000	T482	12	70	76	79	81	79	74	70	67	60	62	58	57	56	51	51	51	50	40	40	35	31	36	26	26	25	21	15	20	17	13	15	15		86
48	4/13	Blast	4000	T482	27	72	83	77	86	85	81	78	72	72	74	70	63	56	50	50	53	49	40	40	43	39	34	31	27	29	23	20	22	18	13	14	14	11	91
48	4/13	Blast	4000	T483	2	45	51	58	61	61	59	52	51	56	59	66	63	57	53	57	61	57	50	47	52	48	45	40	37	29	24	8	16	18	13		9	8	68
48	4/13	Blast	4000	T483	5	34	48	53	57	58	56	48	56	59	57	60	50	56	52	54	57	54	44	41	49	46	41	34	30	27	21	22	18	16	13	5	13		65
48	4/13	Blast	4000	T483	7	42	49	51	56	56	56	46	48	53	53	59	47	51	52	51	55	53	40	39	46	43	37	35	26	24	19	16	15	15	14		9		64
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48	4/13	Blast	4000	T484	13	78	81	80	85	74	79	72	67	67	72	66	60	59	57	53	57	57	47	43	49	41	41	38	33	28	25	22	18	16	20	13	16		87
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48	4/13	Blast	4000	T484	23	73	80	84	81	74	81	71	69	69	66	65	63	63	51	52	56	53	58	41	47	43	43	39	34	26	24	15	15	19	19	12	15		87
48	4/13	Blast	4000	T484	27	76	83	87	83	78	73	73	70	71	67	64	62	61	59	55	56	54	48	47	46	46	42	38	35	29	25	19	21	17	21	11	19	5	91
48	4/13	Blast	4000	T485	5	81	86	88	85	82	77	74	72	70	68	66	64	63	63	56	54	52	58	43	49	48	44	41	38	31	29	22	24	18	22	17	18	13	93
48	4/13	Blast	4000	T485	13	75	79	82	80	75	79	74	74	69	65	62	61	60	55	53	54	52	47	39	43	43	39	36	33	28	26	14	18	14	20	11	14	8	87
48	4/13	Blast	4000	T485	20	80	82	84	81	80	76	72	73	71	67	66	66	66	59	57	54	55	50	54	47	47	43	39	36	27	27	19	23	19	22	13	19	8	90
48	4/13	Blast	4000	T485	25	77	80	81	79	75	73	73	72	74	65	64	64	61	57	54	55	54	47	39	44	44	41	37	34	26	26	16	16	12	21	14	21	38	86
48	4/13	Blast	4000	T486	9	44	64	67	67	77	68	68	69	70	66	61	63	61	47	46	52	47	41	39	37	34	33	30	27	25	24	20	15	12	20	12	23		80
48	5/4	Blast	4000	T1064	3	70	71	78	78	78	74	74	74	75	65	62	62	61	58	58	54	52	58	43	39	41	38	34	30	39	28	28	20	17	23	16	20	6	85
48	5/4	Blast	4000	T1064	7	67	68	79	76	78	73	76	76	66	71	67	66	62	57	57	62	57	59	54	54	46	51	48	34	46	45	43	28	44	45	40	43		85
48	5/4	Blast	4000	T1065	3	77	80	78	81	82	77	75	73	68	62	60	57	53	50	44	50	47	37	41	39	31	31	37	29	38	23	21	16	19	17	10		88
48	5/4	Blast	4000	T1065	7	77	79	79	79	81	78	73	71	69	67	61	58	55	47	46	51	47	37	39	41	33	33	34	38	43	20	23	15	20	17	9	88
48	5/4	Blast	4000	T1065	11	67	70	78	76	79	73	75	74	70	68	66	65	63	58	58	63	59	53	52	53	52	51	50	48	46	44	43	20	45	46	40	86
48	5/4	Blast	4000	T1066	2	70	73	77	79	76	72	71	76	67	66	62	58	59	52	48	46	42	42	37	33	37	31	32	30	38	27	22	19	18	15	5	85

#	Date	Type	Level	ID	n																																		
48	5/4	Blast	4000	T1066	23	80	79	80	84	78	80	80	77	73	71	70	65	65	62	61	60	58	56	55	53	52	51	50	50	48	47	45	44	42	41	41	37	90
48	5/4	Blast	4000	T1067	3	77	80	79	82	78	78	77	73	71	71	70	68	64	65	64	62	62	59	56	55	57	55	53	52	52	50	49	48	46	45	43	39	88
48	5/4	Blast	4000	T1067	17	71	75	76	79	73	74	74	70	70	67	67	63	64	57	54	51	48	44	41	37	35	39	40	38	43	42	35	26	21	16	15	10	85
48	5/4	Blast	4000	T1067	24	76	81	77	81	82	80	76	75	70	70	69	67	68	63	63	62	60	58	58	56	55	54	53	52	50	49	48	47	45	45	44	40	89
48	5/4	Blast	4000	T1068	2	78	82	77	81	81	78	76	76	74	76	66	61	61	52	49	47	41	40	37	36	34	33	33	31	35	40	36	24	23	20	16	10	88
48	5/4	Blast	4000	T1068	16	73	77	78	81	81	76	74	70	71	65	65	60	63	54	54	51	47	44	40	37	35	33	35	32	30	39	28	23	20	17	15	5	86
48	5/4	Blast	4000	T1069	3	76	81	79	81	81	76	76	71	68	76	65	65	59	52	50	46	42	39	37	34	31	29	30	35	31	41	32	24	23	21	18	9	88
48	5/4	Blast	4000	T1069	17	72	75	73	80	75	79	73	70	69	66	66	63	60	55	53	50	48	45	41	37	33	30	31	27	28	35	29	23	19	17	15	8	86
48	5/4	Blast	4000	T1070	26	44	43	50	48	49	52	52	48	52	56	56	53	51	43	46	44	44	42	41	40	35	31	32	29	27	35	30	21	15	5	5		63
57	4/19	Art.	6000	T579	3	49	54	60	60	65	68	68	62	63	59	48	42	37	30	29	29	29	26	27	29	25	23	25	24	18	15	12	10		6			74
57	4/19	Art.	6000	T579	21	53	59	60	66	70	66	62	56	55	54	50	44	36	36	38	37	36	34	31	30	25	26	25	14	21	19	17	13		2			74
71	5/24	Art.	5000	T6	7	81	79	79	73	72	74	75	74	70	71	68	65	65	57	55	51	48	46	42	39	35	35	31	28	26	25	23	21	20	19	2	14	87
81	6/1	Blast	4500	T1264	4	74	74	73	65	59	75	77	57	56	53	51	45	43	38	35	34	30	26	27	27	24	24	21	21	21	19	19	18	16	13			79
81	6/1	Blast	4500	T1265	3	74	73	70	59	58	57	56	59	58	51	47	45	45	37	35	33	30	24	27	26	23	23	21	21	21	20	18	18	13	10			78
81	6/1	Blast	4500	T1266	4	75	76	75	68	58	57	58	56	58	59	48	45	43	35	32	31	29	25	27	27	23	23	21	22	22	21	21	21	16	11			80
81	6/1	Blast	4500	T1267	3	72	74	69	65	60	59	56	56	56	50	45	43	39	36	33	32	30	24	26	26	23	23	22	23	22	21	21	19	13	9			77
81	6/1	Blast	4500	T1268	5	73	76	74	67	59	60	55	56	56	56	46	43	40	36	33	33	31	26	27	27	25	25	23	23	22	21	21	19	16	7			80
81	6/2	Blast	4500	T1178	3	55	60	62	59	60	59	57	55	53	59	45	40	39	39	37	34	34	39	37	27	26	26	27	23	23	27	26	13	13	4			69
82	5/24	Art. Sim. 100		T541	3	47	51	56	60	64	66	66	59	61	61	66	57	51	54	53	51	48	44	46	44	41	44	48	35	32	28	34	23	23	16	19		78
83	5/16	Blast	6800	T48	3	62	67	69	72	75	79	82	81	69	82	66	63	61	56	55	50	46	38	39	33	34	34	35	29	22	28	20	22	11	14	11		87
83	5/16	Blast	6800	T66	9	46	56	58	61	58	55	55	52	53	55	50	48	45	41	41	45	43	42	41	33	32	33	34	25	25	25	20	15	15		15		66
83	5/16	Blast	6800	T68	3	65	62	60	58	57	53	47	50	49	52	49	44	44	40	40	37	41	37	38	29	32	29	26	23	23	21	20	0	19	7			69
83	5/16	Blast	6800	T68	6	60	59	60	62	61	59	59	55	58	60	57	52	51	46	45	45	47	45	46	34	35	34	31	30	30	31	21	15	15	4	15		71
83	5/16	Blast	6800	T68	9	59	60	60	63	63	63	59	53	60	60	57	52	52	48	44	39	50	51	52	34	38	37	31	31	30	26	22	11	11				71
83	5/16	Blast	4000	T1187	13	53	55	54	52	59	51	59	61	53	67	55	62	63	60	63	65	66	69	67	58	63	55	57	50	53	54	50	48	30	40	47	16	87
83	6/16	Art.	4000	T1187	19	52	53	53	53	62	61	60	59	61	69	65	66	65	65	67	73	75	77	80	67	69	54	59	57	59	63	53	55	38	47			89
83	6/16	Art.	4000	T1187	28	81	81	89	84	85	80	78	80	78	74	72	68	61	62	64	66	74	72	77	80	78	56	62	37	33	32	29	24	22				93
83	6/16	Art.	4000	T1187	30	74	80	82	80	80	73	69	73	74	63	63	62	56	51	53	51	61	66	63	45	39	43	45	34	34	29	34		14			11	88

83	6/16	Art.	4000	T1188	2	81	81	89	84	85	80	78	79	80	78	77	77	71	74	74	67	64	65	64	62	59	55	51	47	45	38	38	37	32	33	20	20	93
83	6/16	Art.	4000	T1188	5	77	81	83	82	82	75	69	74	74	75	69	66	64	62	61	62	53	55	57	51	49	46	45	43	41	31	35	35	30	35		20	89
83	6/16	Art.	4000	T1192	20	56	57	55	55	54	68	58	60	69	64	75	98	84	61	55	50	48	47	50	47	55	50	47	50	43	46	42	37	37	38	36	27	98
83	6/16	Art.	4000	T1192	25	54	54	52	50	49	60	54	53	57	63	71	91	80	58	50	46	45	45	44	45	50	44	44	45	38	40	38	23	38	28	33	23	92
83	6/16	Art.	4000	T1192	28	80	80	88	83	84	78	72	72	77	79	84	96	90	76	67	72	60	63	58	56	56	52	50	47	44	41	40	40	34	34	31	28	98
83	6/16	Art.	4000	T1192	30	74	79	81	79	78	71	63	69	71	76	75	86	82	67	62	47	41	40	44	42	40	43	38	37	32	31	31	30	25	21			90
83	6/16	Art.	4000	T1193	2	80	80	88	83	84	78	72	72	77	79	84	96	90	76	68	72	60	63	58	56	56	52	50	47	44	42	40	42	34	34	31	28	98
83	6/16	Art.	4000	T1193	5	77	81	83	81	81	74	65	69	71	76	76	86	82	67	62	49	44	46	42	39	43	45	39	41	38	30	34	36	26	26	19		91
84	5/4	20 mm	2000	T306	7	36	53	54	57	55	56	61	63	60	56	60	56	50	49	41	47	45	42	42	42	42	39	31	37	35	36	33	31	28	18	18		69
84	5/4	20 mm	2000	T306	12	43	36	48	43	54	55	62	62	57	56	60	54	54	56	48	49	45	42	48	42	43	45	35	36	34	35	30	31	30			15	70
84	5/4	20 mm	2000	T307	2		51	55	59	56	57	59	59	57	56	57	50	52	50	44	46	45	44	43	42	42	41	35	33	34	36	29	31	28	30			70
84	5/4	20 mm	2000	T307	5		47	52	56	55	56	60	60	58	53	52	49	47	51	52	48	45	44	44	43	42	42	34	30	35	36	15	36	25	28			69
84	5/4	20 mm	2000	T307	9	44	51	56	59	57	57	61	60	54	55	53	53	52	55	47	49	49	46	44	42	44	43	36	38	38	36	22	36	23	23	18		70
84	5/4	20 mm	2000	T307	14	43	51	56	60	59	60	62	61	54	55	50	51	50	53	48	49	49	44	43	36	40	38	35	30	35	36		36	27	18	18		70
99	5/28	Art.	2000	T505	2	76	78	72	67	68	64	66	68	66	61	56	58	49	51	45	46	44	36	42	39	42	42	26	35	38	36		35	32	29	22		82
99	5/28	Blast	4400	T506	6	79	77	77	76	73	70	67	70	66	60	60	59	55	55	40	48	45	39	43	38	42	42	23	31	38	39	18	32	26	22	16		85
99	5/23	Mark-19	2500	T1363	3		47		45		48	52	52	54	51	49	44	42	36	35	37	38			38	39	42	35	36	37			36	29	20			62
99	5/23	Mark-19	2500	T1366	3	60	61	65	68	65	63	65	67	64	57	56	57	53	56	46	46	44	39	42	37	43	43	34	35	44	42	26	38	31	41	20		75
99	5/23	Mark-19	2500	T1367	2	60	63	67	70	70	72	71	70	60	60	52	49	52	54	38	45	41	32	45		44	41	35	41	40	48	30	34	31	29		80
107	6/9	Art.	2000	T1913	3	78	82	85	87	86	83	76	66	67	63	56	57	54	44	46	55	54	54	54	53	53	52	47	52	49	50	41	48	35	34	33		92
107	6/9	Art.	2000	T1914	3	77	82	85	86	85	82	75	66	69	69	56	53	57	57	52	52	57	47	54	52	56	53	45	49	47	49	50	49	38	34	31		92
121	5/30	Art.	4000	T1261	5	63	68	68	72	70	67	72	64	68	63	52	49	42	36	37	46	44	36	43	41	35	36	29	28	22	47	23	27	17	13	5	6	78
159	4/10	Blast	2600	T848	3	86	89	90	89	86	84	87	84	81	83	81	78	78	81	78	77	62	59	60	57	60	56	64	54	46	54	48	46	41	34	33	23	98
159	4/10	Blast	2600	T848	7	66	71	74	78	81	81	74	70	69	68	66	62	63	66	60	61	55	54	66	55	51	54	40	47	39	46	26	36	36	26	30		89
159	4/10	Blast	2600	T848	11	78	88	94	93	86	83	84	85	83	82	74	77	79	81	62	74	56	57	74	56	63	54	47	44	39	48	30	40	35	23	22		99
159	4/20	Blast	2600	T681	3	80	85	88	86	82	75	67	71	73	71	56	53	53	47	46	46	55	36	46	44	50	47	45	42	38	33	31	26	23	15	21		92
159	4/20	Blast	2600	T681	17	80	84	88	87	84	79	71	71	63	69	54	53	47	48	47	46	53	33	43	41	40	36	47	44	35	35	30	27	23	12	5		93
159	4/20	Blast	2600	T682	3	78	83	86	88	85	76	71	70	69	60	54	54	49	47	44	46	54	34	42	42	40	35	35	35	31	30	31	28	23	18	21		92
159	4/20	Blast	2600	T683	2	83	85	87	86	87	85	79	76	74	67	62	57	57	54	56	56	55	47	54	44	51	39	44	42	31	30	25	28	25	22	22	12	94
159	4/20	Blast	2600	T684	3	80	86	89	88	86	82	79	74	72	68	56	56	53	52	55	55	50	45	50	42	50	38	48	30	30	27	24	30	25	26	26		94
159	4/20	Blast	2600	T686	3	83	86	89	89	85	81	79	80	81	72	66	64	64	58	62	63	58	54	54	51	58	41	51	35	38	32	30	28	26	18	18		95

159	4/20	Blast	2600	T687	4	81	85	88	90	87	84	82	83	76	73	69	71	73	65	63	61	57	59	61	59	56	53	52	48	44	37	35	32	30	29	29	28	25	12	95
159	4/20	Blast	2600	T688	2	82	85	90	91	87	84	78	80	85	72	74	74	72	68	67	58	58	57	58	57	55	52	49	45	42	35	35	34	30	31	30	29	28	21	96
159	4/20	Blast	2600	T689	3	82	85	90	92	86	86	81	81	83	77	70	72	72	67	63	62	60	60	61	61	58	54	50	46	42	34	34	35	30	31	31	29	29	19	96
159	4/20	Blast	2600	T690	2	79	87	90	90	88	85	81	81	77	74	70	71	71	71	66	66	63	63	61	61	59	56	54	50	46	42	39	36	31	31	30	31	28	22	96
159	4/20	Blast	2600	T691	2	82	88	91	90	84	83	85	84	83	75	70	70	70	67	64	61	59	59	61	58	57	54	51	47	42	36	35	34	29	31	28	28	27	15	96
159	4/20	Blast	2600	T692	3	80	85	88	88	86	79	78	68	63	65	58	61	58	54	50	48	48	48	45	45	43	41	36	36	35	28	33	32	19	26	24	25	25		93
159	4/20	Blast	2600	T693	3	80	83	86	86	80	72	66	66	67	62	62	59	57	54	57	46	46	45	48	45	43	41	41	37	42	47	34	31		27	23		18		91
159	4/20	Blast	2600	T694	2	81	85	85	82	77	75	69	67	68	61	59	53	56	48	54	47	45	43	46	43	42	39	39	33	34	20	30	26		23	21		12		90
159	4/20	Blast	2600	T694	14	81	84	85	84	78	71	65	68	62	61	60	54	55	48	55	46	46	43	45	43	41	40	40	33	32	22	28	28		22	22				90
159	4/20	Blast	2600	T695	2	81	83	83	81	74	72	67	66	66	63	61	55	56	48	56	48	46	42	44	43	41	39	31	34	41	43	31	28		23	17	12	17		89
159	4/20	Blast	2600	T696	2	78	81	83	81	75	66	64	66	61	57	55	51	52	45	52	45	45	37	43	38	40	37	37	33	32		27			23	15		15		87
159	4/20	Blast	2600	T697	2	79	82	83	80	75	72	69	64	62	61	61	50	58	47	52	46	45	41	42	38	42	40	29	34	33	15	31	31		26	23		17		88
159	4/20	Blast	2600	T698	3	82	86	86	82	75	69	74	74	70	64	58	55	57	50	53	47	46	46	48	44	43	40	33	37	35	18	30	28		27	21		17		91
159	4/20	Blast	2600	T699	3	81	83	83	82	75	62	69	69	67	66	60	54	56	50	56	46	46	47	47	44	43	34	35	35	31	18	31	30		24	22	19	18		89
159	4/20	Blast	2600	T699	13	81	83	86	82	76	65	67	66	66	61	61	57	59	55	56	46	46	45	48	45	41	39	35	34	36	23	32	31		23	23	17	20		90
159	4/20	Blast	2600	T700	2	81	84	84	82	73	63	67	67	66	64	61	53	57	49	58	46	46	47	47	43	41	39	33	34	36	19	29	29		23	18		15		89
159	4/20	Blast	2600	T701	3	75	80	80	78	74	67	63	66	60	61	61	54	54	50	56	45	42	43	43	38	38	37	29	34	33		29	26		21	17				85
159	4/20	Blast	2600	T701	24	75	79	79	78	73	67	64	66	61	61	60	54	55	51	58	44	41	42	44	38	38	36	18	33	31		26	25		25	12		18		85
159	4/20	Blast	2600	T702	3	76	81	83	84	80	74	72	66	62	60	58	56	55	54	53	47	45	46	46	40	41	39	31	35	35	19	32	30		27	20	19	18		89
159	4/20	Blast	2600	T703	2	75	79	81	84	80	74	66	59	63	54	60	50	56	49	54	44	42	44	42	38	39	36	17	32	31		30	25		24					88
159	4/20	Blast	2600	T703	25	75	79	82	82	79	75	69	65	67	59	59	54	54	49	49	42	41	42	42	38	38	36	24	31	33		27	28		25	17				88
159	4/20	Blast	2600	T704	2	80	84	87	86	81	79	78	74	77	67	64	58	61	56	53	52	48	45	49	45	45	42	34	35	35	24	30	30	12	24	23	23	17		92
162	4/20	Impact	4000	T1105	5	63	66	68	68	64	64	61	61	59	54	49	44	41	35	32	32	28	25	29	28	26	22	18	22	23		20	17		16	13		5		74
172	4/28	C-4	100	T493	4	79	0	79	84	81	82	84	83	87	86	89	86	87	85	84	83	81	82	81	82	83	80	82	84	80	78	77	74	71	71	65	67	58		98
172	4/28	C-4	100	T494	3	78	0	83	84	82	85	85	86	86	85	85	88	86	85	84	84	81	82	86	82	83	84	83	83	79	81	79	78	76	74	71	65	58		99
183	4/28	C-4	1600	T952	3	58	62	63	64	66	65	64	53	65	52	50	51	48	45	48	49	49	46	48	38	45	40	39	39	32		32	33		22	16				73
183	4/28	C-4	1600	T953	3	56	57	57	63	67	71	67	60	54	53	50	48	43	43	49	48	47	43	43	48	45	44	34	34	33	28	33	32		29	19		23		74
206	5/30	Art.	2500	T1176	4	61	67	74	72	72	69	66	73	72	68	58	56	48	40	39	41	43	44	44	43	41	38	35	32	28	28	30	28	23	23	18	6	12		81

206	5/30	Art.	2500	T1176	18	65	71	77	74	76	69	65	69	68	64	55	51	46	40	41	42	45	44	44	41	38	34	31	31	29	32	30	25	25	20	13	13	82
267	5/28	Blast	2400	T314	2	53	57	50	49	51	53	63	64	68	63	61	66	65	61	54	50	48	45	41	40	40	33	34	31	29	32	29	24	24	20		25	73
267	5/28	Blast	2400	T314	6	88	88	85	78	73	74	82	78	73	70	68	66	65	63	59	56	52	49	44	43	42	38	39	38	26	35	32	29	25	23	23		93
267	5/28	Blast	2400	T315	6	85	86	83	76	71	72	76	74	67	62	66	61	58	55	53	47	48	45	40	42	41	31	37	38	36	32	30	16	26	16	23	23	90
267	5/28	Blast	2400	T316	5	86	86	84	80	73	72	76	72	68	65	63	61	63	59	54	50	46	46	42	43	42	32	34	39	34	34	33	27	26	34	23	23	91
267	5/28	Blast	2400	T317	5	85	86	83	74	70	75	86	85	74	74	71	65	62	55	56	48	48	45	45	44	44	36	36	39	28	37	38	34	39	39	23	16	93
267	5/28	Blast	2400	T318	5	85	84	81	73	73	67	69	67	66	66	62	62	60	57	55	47	46	41	44	43	43	36	40	38	30	37	32	29	22	19	19		89
267	5/28	Blast	2400	T319	5	54	61	64	64	60	62	70	70	64	63	52	52	50	47	46	38	43	42	40	40	38	33	36	34	33	34	32	26	26	16	16		75
267	5/28	Blast	2400	T319	2	86	85	87	80	77	80	82	84	77	77	75	70	69	67	58	52	45	47	45	43	43	36	40	39	26	32	34	25	26	24	24	16	93
267	5/28	Blast	2400	T320	5	86	85	83	77	75	77	80	86	82	75	67	66	65	62	52	50	42	42	42	43	43	34	33	37	30	37	33	19	23	23	26	24	92
267	5/30	Blast	2400	T28	7	89	90	88	83	72	67	71	68	71	71	66	66	62	59	53	53	57	58	52	50	47	40	44	38	30	39	38	25		25	21	0	94
267	5/30	Blast	2400	T28	16	71	77	75	74	66	68	72	79	78	74	76	70	70	67	65	57	64	64	49	48	58	52	45	42	33	42	36	21	29	25	21	19	86
267	5/30	Blast	2400	T28	19	87	89	90	85	73	68	69	70	70	69	64	64	61	58	57	52	51	57	51	49	48	39	47	43	21	39	39	31	29	29	28		94
267	5/30	Blast	2400	T29	8	87	88	86	82	73	69	67	65	66	64	63	62	60	54	54	54	49	53	49	47	47	40	40	42		39	34	24	32	28	24		92
267	5/30	Blast	2400	T29	14	56	59	62	63	54	52	53	57	62	62	66	63	66	64	62	52	54	48	52	51	47	35	44	42	35	40	39	32	23				75
267	5/30	Blast	2400	T29	20	85	87	86	81	68	68	67	65	66	66	63	66	68	64	61	57	58	59	56	55	53	47	48	44	35	40	36	32	25	25	31		91
267	5/30	Blast	2400	T30	3	63	67	67	64	59	58	62	62	65	69	70	71	72	64	56	55	52	54	51	51	48	38	43	40	35	38	39	30	29	29	24		79
267	5/30	Blast	2400	T30	7	89	87	85	83	74	69	68	70	70	69	64	62	61	58	57	55	55	55	51	50	48	39	41	42	28	40	35	33	33	25	28	23	93
267	5/30	Blast	2400	T31	4	73	78	76	69	67	62	67	71	76	76	82	78	70	70	63	61	66	63	58	47	45	34	39	41		38	37	31	27				80
267	5/30	Blast	2400	T31	9	89	89	87	84	71	65	62	62	68	68	60	59	56	53	51	50	54	51	46	52	45	25	41	43	47	41	40	28	35	31	24	47	93
267	5/30	Blast	2400	T31	20	73	77	79	78	71	66	62	71	76	79	71	66	60	58	55	55	55	55	53	55	50	44	42	41	35	40	35	28	24	21			86
267	5/30	Blast	2400	T31	23	88	88	88	82	68	67	68	67	67	63	62	61	60	58	55	52	52	52	49	48	47	38	42	43		42	40	30	28	28			93
267	5/30	Blast	2400	T32	7	89	90	88	86	79	58	62	63	64	64	67	59	59	53	57	49	52	48	47	48	48	39	40	43	38	40	38	31	33	33	24		95
267	5/30	Blast	2400	T33	3	73	78	76	69	67	69	68	66	66	64	62	61	59	58	57	52	55	51	51	50	45	34	42	44		42	41	31	34	27	24		87
267	5/30	Blast	2400	T33	6	87	88	87	84	71	62	65	62	68	68	68	67	68	61	62	49	50	48	47	45	45	34	37	41	24	37		28		31	24	27	93
267	5/30	Blast	2400	T34	4	58	59	64	63	57	55	53	54	58	60	59	59	56	53	51	50	55	51	46	56	50	46	44	44	24	38	31	28	21	21	28	39	74
267	5/30	Blast	2400	T34	9	85	87	86	81	74	61	69	64	67	64	61	61	59	53	52	47	52	48	49	47	47	25	40	43	35	39	28	30	33	28	21		91
267	5/30	Blast	2400	T34	19	85	82	82	78	72	67	66	66	63	64	64	67	61	58	53	52	51	51	51	50	45	34	42	44	38	40	38	30	35	33	21		89
267	5/30	Blast	2400	T35	8	87	89	88	83	71	62	65	63	68	66	62	62	58	54	50	49	50	48	47	45	45	34	41	41		37	34	28	31		27	27	93
267	5/30	Blast	2400	T36	3	58	74	80	80	68	65	62	66	68	68	60	59	56	55	51	51	58	60	56	56	52	46	44	42	24	38	30	28	33	21	28	21	87
267	5/30	Blast	2400	T36	6	90	92	91	88	78	67	64	71	71	69	67	64	60	57	57	52	56	56	53	52	49	44	45	43	35	41	38	40	32	29	30	39	97

267	5/30	Blast	2400	T36	17	90	92	91	87	71	70	66	65	64	63	60	58	56	53	54	51	53	52	50	48	47	35	41	40		35	31	28	24	27		96
267	5/30	Blast	2400	T37	7	87	87	85	79	73	69	63	64	65	63	63	60	55	54	52	48	51	49	45	46	44	37	40	40		38	32	31	24	27		92
267	5/30	Blast	2400	T38	4	70	73	78	70	67	68	72	74	78	78	68	70	65	62	61	62	62	61	59	58	53	47	45	45	27	40	39	34	21	28		85
267	5/30	Blast	2400	T38	7	87	89	86	81	73	71	68	67	66	64	62	59	58	58	55	52	54	54	51	50	47	36	42	41		41	36	33	21	21		93
267	5/30	Blast	2400	T39	6	85	87	85	82	73	68	67	68	68	69	72	70	66	66	63	56	56	55	54	49	48	42	44	41	35	40	37	33	24	27		91
267	5/30	Blast	2400	T40	4	88	87	86	83	74	69	72	70	67	65	64	61	57	56	55	52	53	55	51	49	48	39	43	43		41	36	32	24	24		92
267	5/31	Blast	2400	T761	8	84	85	86	80	71	67	69	64	66	66	64	58	57	61	59	47	59	52	55	57	56	45	51	51		50	48	44	35	31		90
267	5/31	Blast	2400	T761	18	83	84	84	81	76	68	68	67	67	65	65	61	55	60	59	51	59	57	55	56	55		52	51		50	48	41	34	34		90
267	5/31	Blast	2400	T762	8	84	86	87	83	74	63	67	66	69	66	63	61	52	60	56	48	55	58	46	52	54		50	47		47	43	34	34	31		92
267	5/31	Blast	2400	T763	4	81	83	79	75	68	66	68	62	60	60	64	59	54	58	56	48	54	56	53	51	53		49	46		45	47	38	34	34		87
267	5/31	Blast	2400	T763	17	82	83	81	80	72	67	69	65	62	59	59	55		54	56	46	54	54	53	53	53	37	48	46		45	45	42	35		34	88
267	5/31	Blast	2400	T764	6	82	84	82	82	78	66	64	66	68	65	64	62	46	60	57	50	57	58	52	57	55		50	50		51	48	42		34		89
267	5/31	Blast	2400	T765	6	85	86	86	82	74	68	65	70	66	64	63	60	53	55	55	48	56	55	43	53	50	49	47	48		47	44	40		37		92
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267	5/31	Blast	2400	T767	6	84	83	85	82	75	68	69	70	69	65	64	61	55	58	57	45	56	55	37	53	49	31	49	47		47	42	35	40		34	90
267	5/31	Blast	2400	T768	3	83	86	86	82	71	65	65	65	66	66	66	61	58	60	58	50	58	56	54	54	54	53	50	50		44	51	31	35	34	34	91
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267	5/31	Blast	2400	T769	5	84	87	87	85	75	67	68	68	68	66	66	62	56	60	57	50	51	57	44	55	53		48	49		46	42		31	38		92
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267	5/31	Blast	2400	T771	5	80	85	85	83	76	61	64	62	67	58	61	58	0	53	57	46	59	54	42	56	51		47	46		49	47	35			35	90
267	5/31	Blast	2400	T772	7	85	86	85	81	73	67	72	68	69	66	68	63	56	61	58	48	57	56	55	55	54	51	52	48		48	49	43	38	39		91
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267	5/31	Blast	2400	T774	7	88	91	91	86	77	73	71	70	73	68	68	69	68	65	59	61	58	61	59	57	56	48	49	49		44	43	31	34	37	34	95
267	6/1	Blast	2400	T849	5	86	87	84	82	72	61	62	68	67	63	64	63	59	60	59	48	57	56	48	56	54		49	49		50	44	43	37	38	34	91
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267	6/1	Blast	2400	T852	7	87	88	88	86	78	66	60	64	67	63	65	63	59	60	60	49	58	56	48	55	54	48	52	51		54	48	42	34	31		94

			Code																																	
267 6/1	Blast	2400	T853	5	85	87	87	83	71	62	57	60 59 55	61	57	37	55	54	44	49	49	50	50		49	49	48	51	46	39	34	31	31	92		
267 6/1	Blast	2400	T854	3	86 87	87	84	75	65	65	67	65 64 63	65	62	56	60	59	49	56	56	53	54	52	50	56	50	53	50	44	34	34	31	92		
267 6/1	Blast	2400	T855	2	79 80	79	76	64	55	57	64 59 46	63	60	55	55	59	34	55	54	52	54	53	48	55	54	48	45	39	35	34	85				
267 6/1	Blast	2400	T856	8	85 86	86	84	74	63	64	66 65 61	64	62	55	58	59	41	56	57	51	55	57	42	51	58	51	49	34	38	37	37	92		
267 6/1	Blast	2400	T857	5	83 86	84	81	73	62	49	51 64 62	60	58	55	55	56	45	54	53	50	50	51	45	46	44	46	48	39	39	90				
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267 6/1	Blast	2400	T861	6	82 84	83	82	77	66	62	66 64 61	62	58	53	56	57	45	58	48	51	55	53	48	53	49	34	89							
267 6/1	Blast	2400	T862	7	81 82	83	81	75	61	63	67 68 59	61	58	49	57	56	37	57	48	50	52	50	48	47	43	31	88							
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267 6/1	Blast	2400	T865	4	84 84	81	79	75	68	66	65 63 63	61	59	56	58	58	40	58	45	53	54	53	41	47	45	38	31	89						
267 6/1	Blast	2400	T866	7	84 86	85	84	77	68	68	66 65 60	64	61	53	58	58	46	56	53	50	52	50	47	44	42	40	34	91						
267 6/1	Blast	2400	T867	6	84 86	85	82	75	65	70	64 67 65	66	64	57	58	58	47	56	50	54	54	54	39	50	45	41	37	91						
267 6/1	Blast	2400	T868	2	69 73	75	72	62	60	62	70 73 71	62	59	60	63	59	60	58	52	52	56	52	40	51	45	40	38	81						
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267 6/1	Blast	2400	T870	2	55 57	59	57	60	62	66	68 78 79	61	72	65	66	57	40	52	65	58	62	54	51	48	39	41	35	86						
267 6/1	Blast	2400	T870	2	84 87	86	82	75	64	64	72 69 69	68	63	58	57	49	54	55	48	52	54	49	43	47	34	91							
267 6/1	Blast	2400	T871	7	87 87	85	83	78	68	69	67 70 67	69	65	59	60	54	59	58	50	55	55	43	49	48	43	34	92						
267 6/2	Blast	2400	T709	7	93 97	97	90	86	85	69	85 84	81	73	71	69	68	60	62	53	62	59	53	57	46	37	40	102							
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267 6/2	Blast	2400	T711	7	94 95	90	88	83	79	68	70 67 68	80	78	71	68	65	65	60	58	58	53	36	50	51	46	36	99							
267 6/2	Blast	2400	T712	2	70 74	75	70	74	69	67	85 92	82	76	76	72	70	55	59	57	56	54	48	53	43	40	34	90							
267 6/2	Blast	2400	T712	5	93 91	89	90	77	76	82	81 79 83	75	65	60	66	59	55	61	52	52	51	45	52	46	41	34	98						
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267 6/2	Blast	2400	T714	7	83 81	78	78	77	74	74	74 75 71	66	66	61	61	55	55	59	49	55	49	51	50	34	34	88							
267 6/2	Blast	2400	T715	6	89 89	84	80	76	75	75	72 67 69	64	63	62	61	58	55	51	52	51	55	50	51	38	36	31	93						

					Measurements
267 6/2	Blast	2400	T716	5	89 90 87 82 73 75 76 73 75 78 71 68 68 63 62 62 54 60 58 56 55 48 56 55 50 51 50 41 31 · · · 39 38 94
267 6/2	Blast	2400	T716	15	84 86 86 82 72 68 69 70 70 68 70 70 68 64 60 60 59 60 58 54 43 55 54 49 52 51 52 44 34 · 36 · · 91
267 6/2	Blast	2400	T716	23	65 59 65 58 55 66 72 73 74 68 67 69 67 69 68 61 60 62 58 56 53 55 49 45 44 49 44 34 31 79
267 6/2	Blast	2400	T716	26	89 89 86 80 75 75 73 78 74 70 67 66 68 64 62 63 55 60 58 58 47 54 56 43 42 52 43 41 37 36 94
267 6/2	Blast	2400	T717	2	67 69 66 65 67 67 66 72 73 82 77 69 70 70 58 67 64 59 61 60 58 58 49 49 39 53 51 85
267 6/2	Blast	2400	T717	5	84 85 85 81 74 68 68 69 73 73 70 66 63 53 67 61 59 57 60 57 52 55 58 52 51 50 31 46 31 31 91
267 6/2	Blast	2400	T718	3	66 74 73 73 63 63 64 68 72 74 71 69 69 67 63 61 56 60 59 51 46 56 52 50 52 53 45 46 82
267 6/2	Blast	2400	T718	6	88 90 90 85 71 70 68 73 79 78 77 65 69 65 62 62 57 60 59 58 56 53 50 49 47 54 47 47 95
267 6/2	Blast	2400	T718	27	89 90 87 82 84 82 80 73 78 76 70 66 72 67 62 62 58 61 60 57 53 50 49 42 36 53 51 95
267 6/2	Blast	2400	T719	5	89 90 86 81 83 83 86 80 73 76 71 69 73 65 59 65 62 63 60 56 54 56 56 50 47 51 49 43 95
267 6/2	Blast	2400	T720	8	86 88 88 80 70 65 72 69 73 71 70 64 69 60 54 60 65 58 56 54 54 56 51 51 49 52 49 42 31 93
267 6/2	Blast	2400	T721	6	86 88 88 84 72 68 69 72 69 69 69 62 64 57 58 59 59 55 54 46 56 55 50 47 47 49 47 37 93
267 6/2	Blast	2400	T722	3	61 0 55 59 0 58 57 59 69 77 82 77 71 65 65 62 45 58 54 55 34 52 47 49 49 46 49 42 31 84
267 6/2	Blast	2400	T722	8	87 88 88 83 73 69 70 72 71 70 68 66 65 62 62 60 54 58 56 56 52 55 52 50 49 52 51 42 41 36 94
267 6/2	Blast	2400	T723	4	86 87 87 81 70 65 67 64 68 65 65 59 64 60 60 62 49 55 57 54 42 54 55 53 50 51 52 41 92
267 6/2	Blast	2400	T724	8	87 90 88 83 74 68 70 72 75 74 74 68 68 62 64 63 57 60 57 55 57 57 51 47 51 52 50 41 37 36 94
267 6/2	Blast	2400	T725	5	86 89 89 81 72 69 69 72 71 75 72 71 66 59 63 67 52 59 57 56 47 56 48 47 49 49 45 45 43 93
267 6/2	Blast	2400	T726	7	85 85 82 81 72 68 68 69 75 72 70 63 63 56 61 61 46 58 56 53 53 54 52 52 50 51 44 44 90
267 6/2	Blast	2400	T726	18	83 85 83 82 74 71 67 72 69 71 65 65 60 57 57 58 48 59 57 56 47 56 49 49 52 51 38 40 90
267 6/2	Blast	2400	T727	6	85 86 83 80 71 71 66 64 70 69 66 63 60 57 59 60 49 56 56 56 39 55 49 49 51 52 31 40 90
267 6/2	Blast	2400	T728	3	67 74 71 70 69 70 68 68 73 72 71 60 63 59 56 59 56 55 56 54 53 53 52 49 49 51 47 82
267 6/2	Blast	2400	T728	6	86 87 84 77 70 73 70 72 71 75 69 63 64 54 62 60 47 58 57 56 44 54 52 52 52 52 45 91
267 6/2	Blast	2400	T728	12	73 73 72 68 68 65 68 64 67 71 66 60 63 53 51 61 55 59 55 55 47 55 54 50 52 50 49 42 82
267 6/2	Blast	2400	T728	15	86 87 83 77 67 61 65 63 66 69 63 60 61 57 62 59 0 59 58 55 39 54 50 52 51 51 49 41 34 91
267 6/2	Blast	2400	T729	3	63 64 67 67 63 63 60 62 64 63 60 66 64 66 61 62 53 58 55 56 53 53 51 51 51 51 45 45 31 77
267 6/2	Blast	2400	T729	6	89 91 89 78 76 77 75 76 74 73 68 66 60 62 60 63 54 58 57 54 50 56 52 51 49 52 51 41 36 95
267 6/2	Blast	2400	T730	2	89 90 86 74 75 76 78 77 72 66 67 62 62 58 61 63 51 58 59 55 49 55 51 51 50 51 44 44 34 94
267 6/2	Blast	2400	T730	21	89 91 87 78 73 76 79 77 74 67 66 66 67 66 61 61 54 59 59 56 52 55 50 51 51 50 41 40 95

267	6/2	Blast	2400	T731	7	90	92	90	84	72	73	71	71	72	68	67	64	65	65	62	62	57	59	57	56	55		52	50	49	43		36	96
267	6/2	Blast	2400	T732	5	85	87	86	82	73	69	68	68	69	64	63	61	61	63	60	61	51	57	57	57	54		52	49	50	40	31	34	92
267	6/2	Blast	2400	T732	8	87	88	88	82	68	66	70	67	70	68	60	59	63	63	61	60	42	58	57	56	55		54	52	48	42	36	38	93
267	6/2	Blast	2400	T732	25	85	87	85	81	73	72	68	70	67	66	58	53	64	64	59	58	46	60	58	47	55		53	52	41	36	38		91
267	6/2	Blast	2400	T733	5	87	89	87	85	68	74	72	72	61	66	56	61	65	65	59	58	54	60	58	51	53		48	48	42	31	41	31	94
267	6/2	Blast	2400	T734	4	88	89	88	83	73	66	68	67	71	67	56	59	63	63	60	58	50	56	53	52	53		49	46	31	41			94
267	6/2	Blast	2400	T734	25	66	72	75	67	68	65	63	71	78	75	73	70	69	73	65	64	61	63	62	57	57		52	49	44	31	39		88
267	6/2	Blast	2400	T734	28	88	89	89	82	69	69	69	68	67	75	67	70	63	61	64	65	62	58	57	58	34		56	51	51	44	31	31	94
267	6/2	Blast	2400	T735	5	85	88	87	84	74	65	66	64	63	70	64	67	59	58	62	61	53	54	59	55	50		48	50	44	31	31	31	92
267	6/2	Blast	2400	T736	6	86	88	86	83	75	66	68	69	69	62	68	66	65	65	60	60	49	56	56	45	48		50	47	34	39	34	31	93
267	6/2	Blast	2400	T737	3	52	59	65	64	62	60	58	64	69	68	76	75	63	62	58	58	48	56	62	52	54		54	44	34	31	34	36	83
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267	6/2	Blast	2400	T738	7	88	90	89	86	78	68	69	67	70	67	66	66	60	60	59	59	47	57	57	45	50		48	49	46	36	36	31	95
267	6/2	Blast	2400	T739	6	84	85	85	82	74	69	65	69	69	71	64	64	63	58	56	58	55	58	56	52	53		54	51	46	36	36		90
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267	6/2	Blast	2400	T741	2	87	88	87	87	79	67	67	71	71	72	70	63	63	59	57	59	56	59	57	57	52		54	50	44	42	34		94
267	6/2	Blast	2400	T742	9	88	89	88	86	78	69	70	68	67	69	68	60	60	61	51	58	51	58	55	49	55	52	53	50	40	34	42	36	94
267	6/2	Blast	2400	T743	8	86	87	86	87	80	70	67	70	74	72	70	64	64	59	54	60	54	60	57	54	55		53	51	44	38	38	39	94
267	6/2	Blast	2400	T744	3	85	86	85	79	72	64	66	68	64	63	64	57	61	60	40	59	40	59	52	52	52		51	50	42	34	34	31	90
267	6/2	Blast	2400	T744	10	85	86	85	87	80	69	72	68	75	73	71	69	67	69	55	61	55	58	57	52	50	48	52	49	42	31	42	34	93
267	6/2	Blast	2400	T744	16	63	65	63	63	62	66	70	75	73	71	83	80	69	66	60	64	60	62	60	57	56	48	52	51	37	36	37	34	52	87
267	6/2	Blast	2400	T744	20	88	89	88	89	81	69	70	74	77	76	71	66	64	59	57	60	57	60	57	55	57	48	53	48	39		39		95
267	6/2	Blast	2400	T745	8	83	85	83	82	73	72	72	74	74	69	66	64	59	58	49	60	50	58	54	53	54	34	54	49	52	42	34		91
267	6/2	Blast	2400	T746	8	84	86	84	83	72	67	69	67	69	67	67	60	60	58	45	61	45	58	56	50	57	34	52	49	45	40	42	34	92
267	6/2	Blast	2400	T747	6	86	87	86	83	75	66	66	70	74	65	65	58	63	60	49	60	49	60	57	51	56		50	48	43		45	31	92
267	6/2	Blast	2400	T748	2	58	63	58	58	55	64	67	70	71	75	75	74	61	58	54	59	54	58	57	50	57	50	50	48	43	40	43		81
267	6/2	Blast	2400	T748	6	88	88	90	87	75	66	73	71	73	74	72	67	67	63	53	65	53	59	56	51	57	43	53	50	48	37	34		95
267	6/2	Blast	2400	T748	23	64	70	72	69	66	61	67	77	77	77	72	62	69	58	55	60	55	59	55	49	55		52	48	48	31	48	31	84
267	6/2	Blast	2400	T748	27	88	90	91	87	77	69	78	78	81	80	76	65	69	65	60	65	60	61	59	54	56	49	53	49	44	37	44	31	96
267	6/2	Blast	2400	T749	2	71	72	76	75	67	67	71	72	76	74	68	64	61	58	58	64	63	60	58	56	58	51	52	51	47	37	47	36	84
267	6/2	Blast	2400	T749	5	89	92	92	89	77	69	76	76	75	74	74	71	71	61	56	61	60	60	60	57	57	40	52	53	49	40	41	34	97

ID	Span	Type	Freq	Tag	n																																Final
267 6/2	Blast	2400	T750	4	88	90	90	85	73	68	72	76	76	77	74	71	65	65	64	56	62	61	58	60	57	54	54	53	51	50	46	40	40			95
267 6/2	Blast	2400	T750	18	89	91	90	85	73	69	72	75	76	76	74	74	68	66	65	59	62	62	57	59	59	54	48	53	53	52	39	41				96
267 6/2	Blast	2400	T751	6	76	80	77	77	73	66	75	76	76	65	61	60	49	57	56	41	59	56	44	55	56	50		52	50	50	41				84
267 6/2	Blast	2400	T752	2	61	70	72	66	64	64	66	69	65	65	64	62	60	58	56	37	55	54	44	55	52	50	40	48	45	47	37	31	36	36	79
267 6/2	Blast	2400	T752	6	78	79	78	72	63	64	68	70	70	65	65	62	60	58	58	0	59	57	52	55	55	51	0	51	48	50	45	37	34	34	84
267 6/2	Blast	2400	T752	25	61	68	70	70	66	62	63	58	63	67	64	62	58	53	56	37	54	54	0	53	52	49	31	50	43	43	48	34	37	78
267 6/2	Blast	2400	T753	2	67	70	77	73	70	64	65	66	68	67	62	62	59	59	58	37	65	63	62	61	59	54	31	51	47	43	37	31	86
267 6/2	Blast	2400	T753	6	84	86	87	83	71	64	69	66	74	79	68	62	58	58	58	37	58	52	56	55	54	51	50	50	50	43	36	34	92
267 6/2	Blast	2400	T754	5	88	88	89	84	74	65	68	66	79	65	67	61	53	56	56	48	57	54	0	53	53	50	31	50	48	45	36	31	34	34	94
267 6/2	Blast	2400	T755	5	86	89	87	82	70	66	68	67	66	66	62	62	51	56	56	47	56	57	0	50	52	48	31	47	49	43	42	93
267 6/2	Blast	2400	T756	5	83	83	84	83	72	67	67	68	68	65	65	61	62	54	56	51	59	56	53	56	57	50	0	53	48	50	46	37	31	89
267 6/2	Blast	2400	T756	23	83	86	85	79	72	66	66	68	67	65	64	60	54	55	58	47	56	54	47	57	54	47	38	53	51	50	36	37	90
267 6/2	Blast	2400	T757	6	81	83	83	79	74	66	66	68	68	66	64	60	58	52	55	44	57	55	51	56	54	51	43	49	51	47	43	37	88
267 6/2	Blast	2400	T758	6	83	84	84	83	72	66	67	62	69	64	65	63	56	56	56	47	56	53	0	54	52	49	53	46	49	45	36	34	90
267 6/2	Blast	2400	T759	7	85	86	80	80	73	69	70	70	65	67	68	64	56	51	56	51	59	56	53	57	55	51	52	51	47	51	40	31	90
267 6/2	Blast	2400	T760	6	79	80	79	68	68	65	66	68	66	65	62	60	54	56	58	51	56	56	53	57	56	50	38	53	50	47	42	36	85
267 6/2	Blast	2400	T760	28	78	81	78	75	71	70	69	65	65	65	60	59	40	55	57	47	58	54	46	53	54	40	38	49	44	44	38	34	85
267 6/4	Blast	2400	T1199	1	37	57	63	64	65	71	71	72	74	73	71	74	71	55	64	60	58	56	51	51	48	43	39	30	39	33	23	22	82
267 6/4	Blast	2400	T1199	5	92	94	93	87	84	87	91	89	86	76	79	81	79	71	71	64	64	63	61	60	56	53	46	42	46	38	35	34	35	31	32	100
267 6/4	Blast	2400	T1199	25	92	94	93	88	83	86	91	89	86	80	80	81	78	71	71	65	64	64	62	59	59	52	50	41	46	38	35	34	32	35	19	100
267 6/4	Blast	2400	T1200	10	93	94	93	91	87	88	91	84	80	80	80	74	75	73	67	66	66	64	60	58	53	50	52	37	44	37	34	34	31	34	19	100
267 6/4	Blast	2400	T1200	23	93	94	93	91	87	87	82	83	83	83	81	74	73	73	69	66	66	64	63	59	57	52	52	39	45	37	33	34	31	31	19	100
267 6/4	Blast	2400	T1201	3	53	52	59	61	63	65	72	70	71	77	79	74	71	59	61	59	55	54	50	53	45	39	40	28	39	34	26	21	85
267 6/4	Blast	2400	T1201	7	93	94	93	90	86	87	84	80	81	80	79	76	73	65	71	65	66	62	62	60	56	62	59	40	46	37	33	26	30	16	100
267 6/4	Blast	2400	T1202	3	68	73	75	69	66	71	76	78	78	78	68	66	64	64	60	57	57	55	52	48	45	41	40	27	36	37	26	21	16	85
267 6/4	Blast	2400	T1202	13	71	80	84	83	83	86	83	84	72	69	79	67	67	65	66	65	60	56	56	53	49	44	54	33	41	35	28	29	21	92
267 6/4	Blast	2400	T1202	16	93	94	92	91	91	77	91	90	86	80	82	76	75	76	72	67	65	63	63	60	55	54	54	42	46	39	36	35	34	34	29	101
267 6/4	Blast	2400	T1204	3	62	62	72	79	80	78	80	83	78	80	72	64	69	66	64	62	58	57	55	51	48	43	42	32	40	35	24	21	19	89

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267	6/4	Blast	2400	T1204	6	92	93	92	91	87	84	87	82	77	82	74	73	72	67	65	64	65	62	60	57	54	49	46	39	39	37	35	34	32	33	30	19	99
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267	6/4	Blast	2400	T1206	5	87	91	89	82	82	76	80	73	75	69	66	65	61	60	57	57	54	52	50	47	43	43	42	36	31	32	27	16	25		19		95
267	6/4	Blast	2400	T1207	7	91	94	96	93	83	85	88	85	87	83	82	79	73	71	68	67	67	65	63	60	57	53	51	43	47	41	36	37	35	36	32	25	101
267	6/4	Blast	2400	T1208	5	88	91	89	81	68	74	75	71	75	67	64	65	60	60	57	55	53	50	49	46	42	40	40	36	27	35	30	22	29		22		95
267	6/4	Blast	2400	T1209	6	88	91	88	83	77	76	78	77	73	68	64	64	58	58	55	55	51	49	48	46	41	40	39	36	31	34	30		26	21	23		95
267	6/4	Blast	2400	T1210	5	90	91	86	80	78	73	72	71	66	65	65	65	59	56	54	54	51	50	48	46	42	40	39	37	29	34	30		28		19		94
267	6/4	Blast	2400	T1211	6	87	90	89	82	79	72	77	72	71	67	66	64	59	56	56	54	53	51	49	47	42	42	40	37	31	33	27		27		23		94
267	6/4	Blast	2400	T1212	5	87	89	89	85	79	74	75	72	72	65	65	64	59	57	55	54	53	50	48	46	41	40	40	36	27	33	28		26		22		94
267	6/4	Blast	2400	T1213	8	89	93	97	94	85	84	80	83	81	81	81	79	70	68	65	63	62	61	59	56	52	49	45	40	39	39	35	33	31	32	31	16	101
267	6/4	Blast	2400	T1214	5	88	95	96	90	77	79	83	84	84	82	76	77	70	64	64	63	61	60	57	54	49	46	44	37	40	37	34	33	34	34	32	24	100
267	6/4	Blast	2400	T1214	14	54	69	74	73	68	68	69	73	72	69	67	66	60	60	57	55	54	52	49	47	42	41	39	35	26	32	27		19				83
267	6/4	Blast	2400	T1214	17	89	95	96	89	82	82	84	83	81	82	78	75	69	67	64	61	61	58	56	53	50	46	44	38	37	36	34	32	34	31	30		100
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267	6/4	Blast	2400	T1216	4	84	91	95	93	88	80	79	81	80	80	76	75	67	65	64	61	65	56	53	49	46	43	42	37	34	33	33	32	32	31	31	16	99
267	6/4	Blast	2400	T1217	8	91	88	93	88	89	85	87	82	78	77	75	75	63	64	62	64	58	56	53	49	46	43	41	36	35	36	32	28	30	29	27	19	98
267	6/4	Blast	2400	T1218	6	91	86	92	86	87	84	81	72	75	77	71	61	65	65	64	61	63	55	51	49	43	41	41	40	28	42	40	27	46	29	27		97
267	6/4	Blast	2400	T1219	5	79	87	90	88	88	84	81	79	74	73	70	62	65	62	61	59	57	55	50	49	44	41	40	35	31	34	29	26	24	21	19		95
267	6/4	Blast	2400	T1219	16	81	87	88	85	85	82	86	87	77	74	74	63	67	63	65	65	63	59	53	49	45	42	41	38	34	37	31	27	28	22	25		95
267	6/4	Blast	2400	T1220	7	86	87	87	84	81	75	76	71	71	72	71	65	57	56	54	54	51	47	46	42	40	37	37	32	27	32	26		24	21	24		93
267	6/4	Blast	2400	T1221	5	84	88	86	86	77	65	68	70	66	68	66	61	56	56	53	52	52	48	44	42	36	38	37	30	24	32	25	22	21		16		93
267	6/4	Blast	2400	T1221	19	83	89	86	86	75	67	68	68	69	67	62	61	57	56	54	53	53	50	45	43	35	38	36			32	30		27		21		93
267	6/4	Blast	2400	T1222	8	87	88	88	86	78	72	76	76	66	68	67	71	58	57	54	51	46	42	46	44	39	41	37	33		30	30	33	24		19		93
267	6/4	Blast	2400	T1223	7	81	85	85	84	76	69	71	69	69	70	66	63	55	53	51	50	44	37	44	42	38	38	40	37	19	35	26				23		91
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267	6/4	Blast	2400	T1225	2	50	60	59	56	56	62	69	72	75	74	71	74	62	66	58	55	53	50	49	45	37	37	39	37		33	26		16		19		82
267	6/4	Blast	2400	T1225	6	85	86	86	81	70	66	69	70	69	67	64	68	54	53	49	48	37	42	41	41	31	36	39	34	29	32	29				22		91
267	6/4	Blast	2400	T1225	22	85	87	86	79	75	69	72	69	69	64	60	61	53	50	47	46		37	39	39	30	33	36	33	16	32							92
267	6/4	Blast	2400	T1226	3	57	61	61	58	60	63	69	72	78	78	78	74	67	68	62	63	65	62	59	58	53	50	46	34	41	35	29		28		21		85
267	6/4	Blast	2400	T1226	9	85	87	89	85	73	68	70	72	71	71	69	68	60	57	52	53	48	48	48	44	37	40	40	26	26	35	29		25		22		93

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267	6/4	Blast	2400	T1227	9	85	86	88	84	72	68	67	65	68	69	72	67	66	60	62	59	53	52	50	47	46	44	37	40	38	23	36	34		28	25		26		92
267	6/4	Blast	2400	T1228	2	85	87	86	83	70	67	71	69	66	66	67	69	63	59	56	54	51	49	47	42	42	42	34	39	38	16	36	32		28	24		22		91
267	6/4	Blast	2400	T1229	2	71	76	78	76	69	75	77	76	73	78	73	74	66	67	70	68	64	67	66	64	59	56	50	47	44	35	36	35	19	29	27	22	16		87
267	6/4	Blast	2400	T1229	5	86	88	84	80	68	72	75	77	74	72	74	70	64	62	59	56	53	55	52	47	47	44	36	40	38	26	36	34		28	24		19	16	92
267	6/4	Blast	2400	T1229	14	71	76	76	67	68	69	72	70	74	72	73	65	73	70	66	65	62	62	62	61	56	56	51	47	45	38	37	37	19	27	24		19	19	84
267	6/4	Blast	2400	T1229	17	86	88	86	83	73	72	75	74	74	76	74	73	65	59	57	56	53	53	52	49	48	45	39	39	38	26	36	33	21	29	25		19		92
267	6/4	Blast	2400	T1230	5	87	89	89	86	77	71	79	77	72	67	72	64	70	63	56	56	50	50	48	44	44	42	38	39	38	32	34	34	23	31	26		23		94
267	6/4	Blast	2400	T1230	13	87	89	86	86	74	71	74	71	72	69	72	64	62	63	60	59	53	49	48	44	43	42	32	40	39	26	37	32		33	24		19		94
267	6/4	Blast	2400	T1231	7	85	87	87	82	71	67	70	69	66	65	66	59	57	55	52	51	48	48	46	42	42	40	32	38	35		33	30		27	19				92
267	6/4	Blast	2400	T1231	23	87	89	89	86	78	69	68	68	72	68	72	64	62	61	60	61	56	52	49	46	44	43	35	39	39	26	36	33	16	32	25		26		94
267	6/4	Blast	2400	T1232	7	86	88	86	82	72	68	69	69	73	73	69	62	62	55	54	53	48	48	48	45	44	42	40	37	38	21	36	33		31	25		22		92
267	6/4	Blast	2400	T1233	8	87	88	87	83	74	66	69	70	71	68	71	64	61	60	59	57	52	52	50	47	46	44	35	38	39	21	35	32		29	27	16	23		93
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267	6/4	Blast	2400	T1235	2	55	64	65	62	56	54	66	72	76	82	82	82	79	69	71	66	61	64	65	59	61	58	52	48	46	39	37	34	23	30	28		24		88
267	6/4	Blast	2400	T1235	8	85	87	85	77	65	60	66	62	63	60	60	56	58	54	49	48	44	43	43	41	41	40	23	35	35		33	30		25	19		22		91
267	6/4	Blast	2400	T1235	20	86	88	86	77	67	65	63	67	66	64	66	65	63	56	54	54	49	48	48	43	43	41	34	36	35	28	33	31		28	28		22		92
267	6/4	Blast	2400	T1236	5	84	86	88	83	72	70	71	73	69	66	64	61	62	60	56	54	52	51	49	47	46	44	38	38	39	24	36	34		29	24	21	23		92
267	6/4	Blast	2400	T1236	17	85	87	88	84	75	68	71	73	70	69	73	63	63	61	58	56	54	52	49	46	45	44	37	40	39	16	35	33		27	21		22		93
267	6/4	Blast	2400	T1237	4	86	89	88	84	76	70	69	73	70	67	69	63	61	61	57	55	53	52	49	46	44	42	38	36	37	16	32	27	22	25	26		16		93
267	6/4	Blast	2400	T1238	3	57	67	75	74	65	63	65	74	77	81	77	69	65	66	64	63	59	60	61	58	55	59	50	47	42	34	37	35		26	27	22	23	22	85
267	6/4	Blast	2400	T1238	6	88	90	88	80	69	63	68	69	68	67	68	66	62	58	56	54	50	51	49	47	47	45	39	40	39	22	36	34	21	29	23		23		94
267	6/4	Blast	2400	T1238	13	72	75	75	68	60	57	68	67	70	71	70	66	62	66	65	64	57	58	57	55	53	50	44	41	39	29	40	43		35	36		16		82
267	6/4	Blast	2400	T1238	16	88	90	88	81	69	65	69	69	71	70	71	66	63	59	57	52	49	49	48	46	45	43	36	40	39	27	38	40		33	33		24		94
267	6/4	Blast	2400	T1239	6	89	90	90	83	74	77	80	77	77	75	71	71	65	64	59	57	57	56	53	52	51	49	42	43	40	29	36	35	22	29	29		26	16	95
267	6/4	Blast	2400	T1240	7	86	88	86	81	69	62	65	68	71	68	69	62	59	56	54	52	51	50	48	45	44	42	36	36	36		33	29		23	24				92
267	6/4	Blast	2400	T1240	20	86	87	86	81	66	62	68	69	69	69	69	61	56	54	53	52	51	49	48	49	44	42	34	36	36		33	31		24			16		92
267	6/4	Blast	2400	T1241	8	86	88	87	82	71	67	65	69	75	69	69	68	63	58	58	56	54	53	52	52	48	46	40	40	39	23	36	32	16	28	27	16	22		93
267	6/4	Blast	2400	T1241	26	90	91	89	86	79	79	79	75	76	75	71	68	67	66	62	62	60	58	55	51	51	48	43	43	40	31	36	35	23	30	26	21	23		96

267	6/4	Blast	2400	T1242	4	89	89	89	85	75	78	78	75	70	74	71	68	65	63	59	60	56	56	54	51	49	47	44	41	39	36	34	28	27	16	29	16	95
267	6/4	Blast	2400	T1243	7	88	89	60	56	53	67	67	62	57	68	67	61	58	55	55	53	50	50	48	44	45	42	38	38	36	31	29	25	19		24		94
267	6/4	Blast	2400	T1244	3	60	64	60	56	53	57	62	57	57	76	69	64	58	54	58	54	51	54	46	39	46	39	34	34	29	27	22	27	21		21		84
267	6/4	Blast	2400	T1244	6	86	89	88	84	73	65	71	67	65	60	60	57	52	50	52	48	45	49	48	45	39	38	38	32	33	32	26	29	22	19	23	19	93
267	6/4	Blast	2400	T1245	4	87	88	88	83	77	74	74	67	68	73	68	60	63	58	55	51	51	47	45	40	40	38	38	40	33	34	29	30	27	22	26	23	93
267	6/4	Blast	2400	T782	7	60	62	61	66	65	60	61	62	62	59	58	52	48	43	47	53	45	43	45	43	38	37	35	38	34	35	22	29	29				73
267	6/7	Blast	2400	T782	17	57	62	63	70	63	63	61	60	59	56	56	53	50	48	42	42	38	45	44	46	41	38	33	38	33	34	30	27	24		17		74
267	6/7	Blast	2400	T783	3	50	49	50	51	54	57	57	60	62	64	57	53	58	53	51	51	53	48	45	46	42	40	38	38	33	34	22	27	17		17		70
267	6/7	Blast	2400	T783	6	59	57		63	67	59	60	61	59	55	58	49	47	49	51	41	45	45	42	40	40	37	36	30	33	30	30	23	23	20	23	20	73
267	6/7	Blast	2400	T783	18		48	48	66	64	59	57	58	58	56	60	57	55	49	50	48	48	45	46	41	43	43	38	38	34	32	22	33	23		17		70
267	6/7	Blast	2400	T783	21	64	59	65	63	64	65	62	60	63	63	51	59	53	48	46	47	51	45	45	43	40	38	38	35	32	29	24	30	17				72
267	6/7	Blast	2400	T784	7	66	64	63	54	60	64	62	62	58	54	55	51	44	49	45	47	42	41	44	45	40	39	38	33	35	34	35	30	23		24		75
267	6/7	Blast	2400	T784	28	67	68	64	67	67	62	62	61	61	58	54	53	52	46	45	48	43	42	44	44	40	40	39	38	34	34	22	22	25		17		75
267	6/7	Blast	2400	T785	7	60	66	70	66	63	60	63	64	61	56	57	55	50	45	48	48	42	43	45	41	43	43	43	37	37	34	23	23	17		17		75
267	6/7	Blast	2400	T786	6	69	68	67	64	63	67	64	64	61	59	58	55	46	50	45	48	46	45	45	43	40	40	37	37	32	33	30	22	23				76
267	6/7	Blast	2400	T786	19	50	48	47	49	54	48	51	55	55	48	56	53	45	37	46	49	47	43	44	41	38	38	34	34	34	32	30	30	23				66
267	6/7	Blast	2400	T786	22	66	67	65	63	68	68	64	64	67	66	58	53	55	55	50	50	47	46	44	44	41	41	39	39	34	34	31	31	26	25	17		76
267	6/8	Impact	1000	T76	4	73	74	72	80	76	74	74	62	58	60	60	57	54	56	50	45	46	50	47	57	40	41	37	36	34	35	38	24	26	31	13		80
267	6/8	Impact	1000	T77	4	75	78	78	84	88	86	90	86	87	81	77	74	73	65	57	64	67	64	57	61	42	32	32	34	38	27	44	44	26				83
267	6/8	Impact	1000	T77	7	74	76	74	70	90	90	90	86	85	79	75	72	66	60	58	60	61	59	57	57	36	34	34	38	30	23	32	43	16	34	22		81
267	6/8	Impact	1000	T77	15	75	77	76	67	86	71	68	66	59	66	75	75	72	66	55	54	61	51	51	48	37	37	38	34	31	29	32	48	28		19		82
267	6/8	Impact	1000	T77	18	72	78	78	72	88	72	69	62	61	62	79	72	67	59	47	45	61	50	50	43	36	35	35	37	37	31	47	47	26		13		83
267	6/8	Impact	1000	T78	4	72	72	74	71	84	66	67	62	58	61	74	68	54	50	46	45	54	50	41	42	36	35	40	29	35	29	22	29	22		21		80
267	6/8	Impact	1000	T78	18	78	81	79	77	88	67	69	66	66	66	60	60	50	47	45	47	64	55	45	42	34	37	37	33	45	33	26	26	22		21		86
267	6/8	Blast	2400	T775	1	52	67	67	69	74	74	75	74	73	68	64	62	56	55	54	49	51	49	52	41	37	50	50	53	45	45	45	33	22	34			83
267	6/16	Blast	2400	T775	5	79	81	81	82	86	74	74	75	86	75	71	63	56	54	54	56	56	55	54	52	52	50	53	53	48	45	45	45	31		34		91
267	6/16	Blast	2400	T775	7	73	77	80	80	76	74	75	69	62	66	60	59	50	63	57	40	55	48	49	39	40	49	52	50	45	47	39	40	36				85
267	6/16	Blast	2400	T776	4	78	81	84	84	88	86	87	87	81	77	74	65	73	65	64	67	64	61	58	57	53	52	53	53	49	51	47	44	40				96
267	6/16	Blast	2400	T776	8	79	81	86	85	90	85	83	83	85	82	79	66	72	61	62	62	63	58	58	52	57	52	53	53	49	51	43	43	36				97
267	6/16	Blast	2400	T777	2	80	82	84	84	87	90	90	87	85	79	79	67	66	60	63	64	65	58	58	57	41	53	53	49	51	49	42	42	37				98
267	6/16	Blast	2400	T778	2	64	69	75	73	75	80	72	69	80	72	69	68	61	60	59	50	56	57	49	55	34	51	53	47	47	47	46	46	34		38		87

267	6/16	Blast	2400	T779	2	70	71	70	77	77	83	80	81	82	78	72	72	68	62	61	60	51	58	57	51	56	55	44	50	52	50	47	41	31	37	89
267	6/16	20 mm	5500	T780	8	61		49	62	62	70	72	76	76	75	71	63	61	58	61	58	48	58	57	53	56	53		49	47	53	45	36	34	37	82
267	6/16	20 mm	5500	T780	12			52	61	67	68	72	76	78	79	76	65	65	62	61	57	51	57	58	0	57	56	49	50	50	52	45	38		31	84
267	6/16	Impact	6400	T781	5	81	92	91	92	94	91	90	86	85	88	84	83	80	75	69	67	63	66	65	60	59	59	50	54	54	50	47	43	39	36	101

Table D 11. Summary data for passive vehicles on Fort Stewart ,GA, 2000. RCW response 0 = no visible response, 1 = alert to cavity mouth, and 2 = flush from cavity.

CL	Date	Nesting Phase & Day	Event Type	Event Dist. (m)	RCW Response	Recovery time (min)	Remarks	Mic Pos.	File #	Spec. #	SEL (dB) at mic Flat	A
	11-Jul-00		Brad/tank loading	30				Base	T1077	30	70.9	86.0
6	05-May-00	I-5	truck	225	0			Base	T975	30	83.5	62.2
6	09-May-00	I-9	trucks	264	0			Base	T546	30	86.7	64.0
8	19-May-00	N-19	Hummv	20				Base	T41	30	97.3	83.1
8	19-May-00	N-19	Hummv	20				Base	T42	30	101.9	88.5
8	19-May-00	N-19	Hummv	20				Base	T45	30	93.3	80.3
12	08-May-00	I-10	dump truck	0	0			Base	T999	8	97.1	51.4
12	12-May-00	N-4	Dump truck	40	0			Base	T301	30	84.9	67.8
13	12-May-00	I-8	Hummv	40	0			Base	T705	30	77.5	61.4
23	16-May-00	I-6	truck	15	2	2.95		Base	T882	30	75.6	63.3
47	10-Apr-00	Pre-nesting	trucks	35				Base	T843	30	104.5	95.0
47	10-Apr-00	Pre-nesting	trucks	35				Base	T844	30	101.0	84.2
47	10-Apr-00	Pre-nesting	trucks	35				Base	T845	30	105.8	90.8
47	10-Apr-00	Pre-nesting	trucks	35				Base	T846	30	107.1	91.6
47	10-Apr-00	Pre-nesting	trucks	35				Base	T847	30	107.0	90.4
57	28-Apr-00	I-1	Graders	50	0			Base	T672	30	88.3	78.7
57	28-Apr-00	I-1	Graders	50	0			Base	T673	30	87.9	79.9
57	28-Apr-00	I-1	Graders	50	0			Base	T674	30	86.0	74.7
57	28-Apr-00	I-1	Graders	50	0			Base	T675	30	90.6	79.5
57	28-Apr-00	I-1	Graders	50	0			Base	T676	30	90.3	80.9
57	28-Apr-00	I-1	Graders	50	0			Base	T677	30	88.3	80.0
57	28-Apr-00	I-1	Graders	50	0			Base	T678	30	89.8	82.3
57	28-Apr-00	I-1	Graders	50	0			Base	T679	30	84.6	77.2
57	03-May-00	I-7	vehicle	50	0			Base	T20	30	86.9	71.6
57	03-May-00	I-7	vehicle	50	0			Base	T21	30	89.0	71.9
57	03-May-00	I-7	vehicle	50	0			Base	T22	30	85.2	72.8
57	03-May-00	I-7	dump truck	50	0			Base	T23	30	93.6	70.3
57	03-May-00	I-7	Hummv	50	0			Base	T24	30	85.8	70.0
62	08-May-00	I-10	Brad veh	180	0			Base	T979	30	71.8	70.4
62	08-May-00	I-10	Brad veh	180	0			Base	T980	30	75.7	75.1
62	08-May-00	I-10	Brad veh	180	0			Base	T981	30	74.9	74.3
82	24-May-00	I-7	Graders	92	0			Base	T535	30	81.9	65.5
82	24-May-00	I-7	Graders	92	0			Base	T536	30	84.2	66.6
82	24-May-00	I-7	Graders	92	0			Base	T537	30	87.8	66.7
82	24-May-00	I-7	Graders	92	0			Base	T538	30	87.1	78.6
82	24-May-00	I-7	Graders	92	0			Base	T539	30	89.5	78.9
82	24-May-00	I-7	Graders	92	0			Base	T540	30	87.4	75.6

83	04-May-00	N-3	truck	30	0				Base	T303	30	84.5	76.8
83	04-May-00	N-3	truck	30	0				Base	T304	30	81.6	76.6
83	04-May-00	N-3	truck	30	0				Base	T305	30	81.8	75.9
83	16-Jun-00	Post-fledling	M-88	30					Base	T1189	30	101.4	95.7
83	16-Jun-00	Post-fledling	Brad veh	30					Base	T1190	30	101.4	88.5
83	16-Jun-00	Post-fledling	Brad veh	30					Base	T1191	30	104.6	92.4
83	16-Jun-00	Post-fledling	trucks	30					Base	T1194	30	114.6	98.4
83	16-Jun-00	Post-fledling	Brad veh	30					Base	T1195	30	111.3	95.8
83	16-Jun-00	Post-fledling	Brad veh	30					Base	T1196	30	116.4	101.8
88	11-Apr-00	Pre-nesting	trucks	670					Base	T824	30	95.3	80.9
139	11-May-00	I-7	Logging truck	34-138	0				Base	T508	30	92.9	83.0
139	11-May-00	I-7	Logging truck	34-138	0				Base	T510	30	86.4	73.5
152	07-Jun-00	N-20	truck	50					Base	T86	30	90.7	77.4
152	08-Jun-00	N	truck	50					Base	T963	30	74.8	60.4
197	02-May-00	I-6	trucks	30	0				Base	T1254	5	75.1	65.0
197	02-May-00	I-6	trucks	30	0				Base	T1254	6	70.1	60.4
197	02-May-00	I-6	trucks	30	0				Base	T1254	7	67.2	58.3
197	22-May-00	I-6	trucks	30	0				Base	T1254	1	57.8	51.2
197	22-May-00	I-6	trucks	30	0				Base	T1254	2	71.7	65.9
197	12-Jun-00	I-6	trucks	30	0				Base	T1254	3	79.1	72.2
197	12-Jun-00	I-6	trucks	30	0				Base	T1254	4	79.0	69.9
206	25-May-00	I-3	truck	100	0				Base	T526	30	95.3	80.3
206	25-May-00	I-3	truck	100	0				Base	T527	30	94.1	79.2
206	25-May-00	I-3	truck	100	0				Base	T529	30	95.5	79.0
206	25-May-00	I-3	truck	100	0				Base	T530	30	96.9	80.8
206	25-May-00	I-3	truck	100	0				Base	T531	30	98.5	79.2
207	02-May-00	I-5	trucks	392	0				Base	T598	30	78.5	62.3
207	02-May-00	I-5	dump truck	392	0				Base	T599	30	76.1	54.1
216	08-May-00	I-4	Brad veh	30	0				Base	T791	30	101.0	90.4
216	08-May-00	I-4	Brad veh	30	0				Base	T792	30	103.6	92.0
216	08-May-00	I-4	Brad veh	30	0				Base	T793	30	102.1	89.2
216	08-May-00	I-4	Brad veh	30	0				Base	T794	30	103.3	89.1
216	08-May-00	I-4	Brad veh	30	0				Base	T795	30	103.5	89.2
216	08-May-00	I-4	Brad veh	30	0				Base	T796	30	102.7	88.9
216	08-May-00	I-4	Brad veh	30	0				Base	T798	10	78.3	68.0
216	08-May-00	I-4	Brad veh	30	0				Base	T798	30	103.0	91.8
216	08-May-00	I-4	Brad veh	30	0				Base	T799	30	92.2	79.3
216	08-May-00	I-4	Brad veh	30	0				Base	T800	30	102.2	90.6
216	08-May-00	I-4	Brad veh	30	0				Base	T801	30	100.2	90.3

216	08-May-00	I-4	LMTV	30	0				Base	T802	30	82.5	77.2
216	08-May-00	I-4	Brad veh	30	0				Base	T804	30	101.9	90.3
216	08-May-00	I-4	Brad veh	30	0				Base	T805	30	104.6	94.9
216	08-May-00	I-4	Brad veh	30	0				Base	T806	30	102.9	90.1
216	08-May-00	I-4	Brad veh	30	0				Base	T807	30	100.3	90.3
216	08-May-00	I-4	Brad veh	30	0				Base	T808	30	99.0	87.8
216	08-May-00	I-4	Brad veh	30	0				Base	T809	30	100.8	88.8
216	08-May-00	I-4	Brad veh	30	0				Base	T810	30	104.0	92.1
216	08-May-00	I-4	Brad veh	30	0				Base	T811	30	103.8	91.8
216	08-May-00	I-4	Brad veh	30	0				Base	T812	30	102.6	90.7
216	08-May-00	I-4	Brad veh	30	0				Base	T813	30	104.9	92.4
216	08-May-00	I-4	Brad veh	30	0				Base	T814	30	101.1	94.9
216	08-May-00	I-4	Brad veh	30	0				Base	T815	30	107.4	97.7
216	08-May-00	I-4	Brad veh	30	0				Base	T816	30	100.5	85.7
216	08-May-00	N-4	truck	30	0				Base	T1185	30	109.9	71.4

Table D 12. Representative unweighted noise spectra for passive vehicles on Fort Stewart, GA, 2000.

CL	Date	Event Type	Event Dist. (m)	File #	Spec. #	10	13	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Calc. Overall SEL
	7/11	Brad/tank	30	T1077	30	82	83	85	87	85	84	89	85	83	83	86	83	84	86	81	79	82	77	79	75	74	73	72	71	73	72	69	63	60	59	55	55	42	34	97
6	5/5	trucks	225	T975	30	63	72	65	68	76	71	73	71	72	77	76	56	52	50	47	46	46	49	50	51	52	51	50	48	46	41	40	44	17	30	24		18		83
6	5/9	trucks	264	T546	30	53	56	59	58	61	62	63	84	84	84	63	58	52	47	48	48	50	48	48	50	51	49	47	45	42	34	37	35	37	46	31		20	27	87
8	5/19	Hummv	20	T41	30	57	63	70	73	78	77	90	93	83	89	88	85	81	77	67	61	63	65	69	69	73	72	71	74	75	71	68	64	59	56	51	48	40	19	97
8	5/19	Hummv	20	T42	30	56	63	64	69	71	71	77	82	92	81	91	101	86	81	76	65	69	68	70	71	73	75	79	76	75	75	73	70	68	64	64	57	46	32	102
8	5/19	Hummv	20	T45	30	56	63	68	72	72	75	78	90	81	82	87	81	81	77	67	60	62	64	67	68	68	70	68	69	71	69	67	64	59	57	52	48	39	17	93
12	5/8	Dump truck	40	T999	8	65	65	65	65	64	64	65	65	64	62	59	50	49	46	43	42	37	42	42	41	42	42	39	38	36	32	22	29	9	24	19		16		75
12	5/12	Dump truck	40	T301	30	54	52	56	59	60	59	60	63	83	80	63	69	67	68	61	56	53	54	54	56	59	57	56	55	55	50	49	45	26	37	29		27	10	85
13	5/12	Hummv	40	T705	30	57	59	57	58	59	60	63	62	62	72	74	60	62	60	60	56	52	51	51	50	48	46	44	43	42	40	42	42	36	34	28		18	34	77
23	5/16	truck	15	T882	30	55	55	63	69	66	65	68	65	65	65	58	59	57	51	58	55	47	57	55	48	53	53	40	50	49	52	52	56	27	42	35		31		76
47	4/10	trucks	35	T843	30	66	69	70	71	76	79	87	82	83	103	92	82	86	79	80	76	77	79	81	83	85	85	86	87	86	82	76	73	66	56	54	50	47	46	104
47	4/10	trucks	35	T844	30	61	63	68	74	75	81	82	85	99	95	88	82	80	77	72	74	75	76	80	76	74	74	68	65	59	53	48	47	46	46	45	40	44	38	101
47	4/10	trucks	35	T845	30	60	65	68	72	79	83	90	95	102	98	99	92	88	88	81	79	78	78	81	80	80	80	80	81	78	75	73	68	62	56	50	46	45	44	106
47	4/10	trucks	35	T846	30	59	63	67	72	79	83	87	94	106	93	94	95	90	90	83	80	79	79	79	79	80	82	81	82	79	77	74	72	65	59	52	46	42	44	107
47	4/10	trucks	35	T847	30	63	65	66	70	80	83	84	91	105	92	99	98	87	86	80	76	74	79	82	78	79	80	79	77	76	74	70	66	62	59	51	45	42	42	107
57	4/28	Graders	50	T672	30	57	48	62	62	60	67	75	68	76	85	76	80	75	72	75	70	70	67	66	67	68	69	70	68	67	62	60	57	44	48	40		33	20	88
57	4/28	Graders	50	T673	30	60	59	64	63	59	67	74	68	76	83	79	81	73	71	72	68	68	67	68	68	69	71	71	70	70	65	62	60	44	50	42		36	26	88
57	4/28	Graders	50	T674	30	66	61	64	64	61	67	74	69	78	76	81	78	70	69	68	64	61	63	63	63	64	64	63	65	66	54	56	54	30	45	36		36	23	86
57	4/28	Graders	50	T675	30	60	52	62	62	59	69	75	70	81	75	88	81	72	73	73	68	67	69	67	70	70	70	72	68	65	63	62	57	32	48	39		34	20	91
57	4/28	Graders	50	T676	30	58	55	62	61	60	71	73	71	84	76	86	81	71	74	74	69	68	70	68	70	71	72	72	71	68	66	65	62	43	50	41		35	20	90
57	4/28	Graders	50	T677	30	61	56	63	60	59	70	72	69	85	77	80	77	70	74	69	68	67	68	68	68	69	72	72	69	67	63	61	60	29	47	39		37	20	88
57	4/28	Graders	50	T678	30	75	73	71	70	67	75	70	81	84	80	78	73	70	74	73	68	69	68	71	71	74	73	75	72	70	68	65	61	47	51	41		34	61	90
57	4/28	Graders	50	T679	30	60	54	63	59	55	66	67	77	80	73	86	73	65	68	68	57	61	63	65	63	68	68	70	67	65	63	59	57	27	45	37		35	27	85
57	5/3	vehicle	50	T20	30	56	50	58	57	65	66	66	65	74	74	60	60	61	60	61	57	53	56	58	57	60	60	60	60	58	57	56	51	43	43	35		29	14	87
57	5/3	vehicle	50	T21	30	55	50	56	61	61	63	65	71	87	83	71	67	67	62	61	57	52	56	59	59	60	60	61	59	60	59	57	53	44	44	35	36	32	14	89

ID	Date	Vehicle	Num	Code	V																																						
57	5/3	vehicle	50	T22	30	53	52	59	64	58	63	68	68	80	93	81	76	72	69	66	65	61	60	59	61	62	63	62	62	62	63	57	54	59	57	54	46	47	41	35	34	85
57	5/3	dump truck	50	T23	30	52	48	59	63	64	69	80	71	84	65	70	75	56	65	67	57	57	56	50	57	56	55	54	56	57	54	51	47	51	56	50	43	44	35	31	14	94
57	5/3	Hummv	50	T24	30	58	59	59	59	62	64	69	71	83	79	75	68	65	58	64	58	60	58	56	64	55	56	56	55	52	56	52	51	44	37	32	49	47	44	32	32	86
62	5/8	Brad veh	180	T979	30	48		53	49				53	56	64	60	53	43	43	51	51	55	57	52	59	60	62	63	67	62	59	52	52	44	36	37	37	37	31		14	72
62	5/8	Brad veh	180	T980	30	50	52	53	51	52	49	57	58	65	61	62	60	47	49	54	52	55	58	58	60	65	68	67	63	67	62	54	46	46	33	34	36	41	34	29	12	76
62	5/8	Brad veh	180	T981	30	49	33	52	50	57	61	66	65	58	61	60	58	50	46	52	51	56	59	58	62	64	65	66	67	58	60	51	47	42	42	43	42	46	43	29	12	75
82	5/24	Graders	92	T535	30	57	56	56	60	73	77	78	66	65	58	61	56	48	54	48	43	43	48	51	54	52	54	55	58	60	54	48	41	30	41	6	21	41	30	21	44	82
82	5/24	Graders	92	T536	30	57	56	56	60	74	78	76	68	69	61	60	54	52	49	49	46	49	50	52	46	52	55	57	59	49	52	50	32	37	32	21	21	41	32	22	42	84
82	5/24	Graders	92	T537	30	52	54	57	57	75	79	85	74	70	56	58	51	49	48	51	44	56	51	54	58	57	56	58	57	48	54	51	37	38	32	2	31	42	32	22	33	88
82	5/24	Graders	92	T538	30	54	57	58	62	79	85	80	73	81	70	70	66	56	59	61	57	61	59	61	62	69	69	71	71	59	69	68	39	43	43	37	43	43	43	31	41	87
82	5/24	Graders	92	T539	30	55	56	59	61	76	74	86	73	82	71	81	65	56	61	61	63	60	62	61	62	71	73	71	73	60	68	65	42	48	44	38	44	51	44	32	23	90
82	5/24	Graders	92	T540	30	52	53	56	59	80	74	80	69	83	77	77	54	54	56	56	65	60	62	58	60	68	69	67	69	56	64	60	31	39	39	31	39	49	39	29	16	87
83	5/4	truck	30	T303	30	58	56	61	63	65	67	73	71	75	71	84	56	64	67	64	68	60	60	57	67	69	69	67	65	54	56	58	48	54	48	30	48	54	48	35	15	84
83	5/4	truck	30	T304	30	54	49	56	58	62	70	67	63	76	71	75	64	59	63	66	67	60	59	55	66	67	66	69	67	52	59	57	51	54	46	30	54	54	54	36	22	82
83	5/4	truck	30	T305	30	63	60	62	61	61	61	70	64	76	71	81	73	61	65	74	66	86	83	58	74	68	68	73	73	61	63	59	55	57	57	24	55	57	56	36	21	82
83	6/16	M-88	30	T1189	30	55	58	63	66	74	77	95	84	108	99	99	82	81	80	81	78	75	79	98	77	74	81	85	85	62	80	82	77	79	77	67	77	77	42	58	45	110
83	6/16	Brad veh	30	T1190	30	55	57	62	64	68	76	82	86	93	97	89	75	76	74	80	75	79	78	76	69	70	77	76	77	70	74	76	85	74	82	79	62	59	56	44	30	101
83	6/16	Brad veh	30	T1191	30	59	61	64	68	85	82	80	86	95	86	102	78	78	76	82	80	78	78	80	78	79	84	88	84	66	76	88	71	75	74	75	66	40	33	46	34	105
83	6/16	trucks	30	T1194	30	68	66	66	69	75	79	94	97	108	101	112	94	86	84	88	76	76	78	86	76	70	80	88	88	69	73	84	59	58	63	53	58	44	32	48	45	115
83	6/16	Brad veh	30	T1195	30	52	54	60	75	82	86	94	85	95	101	109	80	95	86	94	69	70	69	70	69	64	75	86	84	62	69	59	53	52	59	30	35	44	35	43	35	111
83	6/16	Brad veh	30	T1196	30	64	62	63	64	81	80	94	92	93	91	115	81	93	89	82	86	86	83	98	83	73	81	82	80	55	62	61	45	49	57	45	56	55	42	53	52	116
88	4/11	trucks	670	T824	30	66	70	74	78	83	87	86	82	82	79	81	71	72	74	71	72	75	79	72	59	61	71	62	62	47	64	59	19	42	46	57	48	48	42	40	56	95
139	5/11	Logging truck	34-138	T508	5	56	59	62	67	79	78	81	87	87	85	79	79	79	83	82	70	77	69	77	69	70	79	82	83	63	67	68	37	59	68	59	62	59	56	44	23	93
139	5/11	Logging truck	34-138	T510	30	53	43	56	61	61	77	77	85	85	71	66	75	66	71	71	66	63	61	59	63	64	64	70	67	56	62	60	37	40	33	40	33	40	37	39	13	86
152	6/7	truck	50	T86	30	64	63	64	65	72	76	75	81	83	83	64	70	67	67	62	59	62	61	59	60	69	67	60	67	53	65	60	56	44	40	44	35	44	32	30	16	91
152	6/8	truck	50	T963	30	50	53	55	59	63	64	63	66	66	62	68	64	50	62	45	62	59	58	42	45	59	50	55	47	38	49	47	45	44	35	35	30	31	23	18	10	75
197	5/2	trucks	30	T12545	30	42	44	46	58	61	63	62	63	66	70	64	59	55	51	62	55	58	62	58	55	51	50	54	50	39	50	46	19	37	35	37	27	36	34	21	2	75
197	5/2	trucks	30	T12546	30	41	42	43	48	55	59	58	59	70	63	59	56	51	52	55	52	54	54	54	51	45	46	49	46	38	49	44	36	36	34	30	22	35	33	27	27	70
197	5/2	trucks	30	T12547	30	41	40	42	45	52	57	57	57	66	63	57	58	49	48	51	47	52	48	52	45	44	41	44	43	37	43	47	36	34	32	27	25	34	32	22	22	67
197	5/22	trucks	30	T12541	30	25		22	52	51	54	57	51	44	51	46	46	45	41	45	37	38	39	48	44	41	39	42	39	31	38	41	29	28	35	16	16	25	27	9		58
197	5/22	trucks	30	T12542	30	23	39	36	55	55	56	64	60	56	64	55	56	59	59	59	52	56	49	62	57	59	53	56	54	54	54	59	43	41	42	39	39	41	29	29	12	72
197	6/12	trucks	30	T12543	30	46	47	44	47	55	58	63	63	74	68	69	69	60	65	66	60	62	64	62	60	64	63	64	60	60	61	61	48	37	47	44	44	47	47	35	14	79

						45	48	44	48	58	54	58	62	66	69	74	68	67	70	67	64	59	66	62	60	57	60	58	56	53	48	45	43	42	40	39	36	27	10	79
197	6/12	trucks	30	T1254	4	45	48	44	48	58	54	58	62	66	69	74	68	67	70	67	64	59	66	62	60	57	60	58	56	53	48	45	43	42	40	39	36	27	10	79
206	5/25	truck	100	T526	30	59	61	63	64	82	77	76	81	92	89	82	85	77	72	67	66	63	66	64	67	71	72	71	71	66	64	62	58	50	47	39		33	39	95
206	5/25	truck	100	T527	30	55	58	63	62	79	75	79	80	92	85	81	84	77	72	69	67	64	66	65	67	69	71	70	68	66	63	61	57	48	46	37		31	17	94
206	5/25	truck	100	T529	30	56	58	64	63	67	77	76	83	93	84	80	89	81	70	69	65	62	61	62	65	68	69	68	68	65	62	60	55	44	45	37	12	31	38	95
206	5/25	truck	100	T530	30	56	58	58	60	66	79	74	90	93	83	84	90	81	73	72	67	63	64	63	68	70	68	72	70	67	65	61	58	50	48	40		32	21	97
206	5/25	truck	100	T531	30	55	56	60	60	61	63	74	84	97	72	78	90	79	70	71	65	62	62	62	63	66	69	67	66	64	61	59	54	43	45	37	26	32	18	98
207	5/2	trucks	392	T598	30	57	57	56	57	55	63	63	66	76	72	65	58	54	50	51	50	49	52	49	52	55	51	52	53	48	43	40	36	27	32	30	14	21	32	79
207	5/2	dump truck	392	T599	30	51	51	53	53	55	54	56	72	67	72	54	47	45	45	47	46	42	43	41	37	40	40	39	42	37	18	34	32	34	41	29	54	18	26	76
216	5/8	Brad veh	30	T791	30	51	56	59	63	69	80	72	67	97	83	85	95	91	86	87	82	76	75	76	77	80	82	81	78	78	76	73	70	67	64	60	51	44	32	101
216	5/8	Brad veh	30	T792	30	56	61	63	67	74	82	76	89	100	93	90	96	94	90	87	83	81	78	79	78	81	84	81	80	78	78	75	71	67	62	57	54	44	34	104
216	5/8	Brad veh	30	T793	30	54	55	60	63	68	80	85	85	89	100	84	88	95	83	84	81	78	76	76	76	77	79	78	78	79	75	72	68	65	61	57	48	46	30	102
216	5/8	Brad veh	30	T794	30	54	58	62	64	69	79	82	82	96	101	87	92	93	85	83	81	77	74	76	75	77	80	78	76	77	76	71	69	63	57	52	46	42	31	103
216	5/8	Brad veh	30	T795	30	53	57	60	64	67	75	80	81	84	103	90	86	91	83	85	80	77	74	75	78	77	80	80	78	77	76	71	68	63	56	52	47	39	30	103
216	5/8	Brad veh	30	T796	30	57	55	61	65	67	75	77	80	87	102	85	85	91	83	83	80	77	75	80	77	78	80	78	78	75	74	69	66	61	57	52		41	27	103
216	5/8	Brad veh	30	T798	30	44	44	45	46	49	56	62	60	61	74	63	65	73	62	66	59	54	53	54	56	56	58	59	57	55	54	49	45	39	34	25	49	21	17	78
216	5/8	Brad veh	30	T798	30	56	59	61	64	69	80	84	82	91	101	87	86	92	85	88	83	79	81	79	80	81	83	82	81	80	78	74	70	65	60	54	27	42	34	103
216	5/8	Brad veh	30	T799	30	52	47	57	58	62	71	75	71	74	90	80	76	83	74	77	71	66	66	66	69	69	69	69	68	65	63	60	56	52	47	40	53	32	21	92
216	5/8	Brad veh	30	T800	30	55	56	60	65	71	82	77	94	92	86	95	96	94	88	87	82	79	77	79	77	79	82	79	78	77	75	72	68	63	59	54	49	43	32	102
216	5/8	Brad veh	30	T801	30	56	57	60	62	70	77	78	90	94	87	88	95	88	87	86	82	78	78	77	76	80	81	80	79	79	77	74	71	66	61	55	34	41	35	100
216	5/8	LMTV	30	T802	30	53	50	55	57	59	62	69	67	72	76	73	67	74	68	66	60	58	59	58	67	64	65	71	67	66	65	64	60	56	52	46	49	33	17	83
216	5/8	Brad veh	30	T804	30	58	59	63	62	69	79	79	89	98	85	87	96	86	88	86	82	80	78	78	78	80	80	80	78	78	75	73	69	64	60	54	56	41	31	102
216	5/8	Brad veh	30	T805	30	55	57	62	64	72	83	81	90	101	87	89	99	90	94	90	86	84	81	78	78	84	84	84	84	84	82	79	76	72	67	61	51	46	38	105
216	5/8	Brad veh	30	T806	30	55	53	59	61	70	81	80	81	96	100	84	91	83	87	89	79	79	79	76	74	78	79	79	79	79	77	74	71	67	63	57	48	42	34	103
216	5/8	Brad veh	30	T807	30	55	54	60	60	68	79	79	82	97	84	86	93	86	89	88	78	78	79	77	76	79	80	80	80	79	77	74	71	66	60	54	47	41	32	100
216	5/8	Brad veh	30	T808	30	60	60	61	63	70	82	82	97	94	90	85	93	82	86	82	83	81	76	81	79	81	78	77	76	75	74	71	69	64	59	53	49	39	46	99
216	5/8	Brad veh	30	T809	30	55	58	63	65	71	82	85	101	98	87	86	94	83	85	83	82	83	78	83	79	81	79	77	77	77	73	73	70	65	61	56	52	41	32	101
216	5/8	Brad veh	30	T810	30	57	58	62	63	70	80	81	99	99	92	87	97	89	92	89	85	82	81	77	76	81	82	80	80	80	74	74	71	67	63	58	50	44	35	104
216	5/8	Brad veh	30	T811	30	55	58	61	63	70	82	80	81	99	99	85	95	92	91	87	84	81	80	79	77	81	82	79	79	79	73	73	70	65	61	55	49	42	34	104
216	5/8	Brad veh	30	T812	30	54	55	58	65	71	78	83	87	98	95	87	94	95	88	84	82	81	78	77	77	80	81	80	79	79	71	74	71	66	60	54		41	31	103

216	5/8	Brad veh	30	T813	30	55	59	61	65	72	81	82	84	98	102	87	93	94	89	88	84	83	81	81	81	82	81	80	80	79	75	72	67	63	57	52	43	38	105
216	5/8	Brad veh	30	T814	30	57	58	62	66	72	78	83	94	98	93	88	89	88	94	89	82	79	80	84	87	84	84	83	81	80	79	76	71	65	58	47	48	101
216	5/8	Brad veh	30	T815	30	56	60	66	69	76	81	98	94	93	104	96	93	98	93	86	85	83	83	85	87	87	88	85	83	80	78	74	77	65	52	39	107
216	5/8	Brad veh	30	T816	30	57	56	63	64	70	72	73	86	79	99	91	81	82	76	72	68	68	66	68	73	74	75	73	71	70	67	65	61	58	54	43	26	100
216	5/8	truck	30	T1185	30	37	41	36	42	42	42	48	52	52	49	54	49	47	44	45	48	49	58	57	59	65	63	62	59	58	57	54	52	46	40	31	17	71

Table D 13. Summary data for passive missiles on Fort Stewart, GA, 2000. RCW response 0 = no visible response, 1 = alert to cavity mouth, and 2 = flush from cavity.

Cluster	Date	Nesting Phase & Day	Event Type	Event Dist. (m)	RCW Response	Recovery time (min)	Remarks	Mic Pos.	File #	Spec. #	SEL (dB) at mic Flat	A
83	15-May-00	N-15	Missiles	2000-4000				Base	T1330	3	85.8	67.6
83	15-May-00	N-15	Missiles	2000-4000				Base	T1330	9	77.8	64.9
83	15-May-00	N-15	Missile	2000-4000				Base	T1331	3	82.6	57.9
83	15-May-00	N-15	Impact	2000-4000				Base	T1331	11	82.1	58.2
83	15-May-00	N-15	Missile	2000-4000				Base	T1332	3	78.5	67.8
83	15-May-00	N-15	Missile	2000-4000				Base	T1332	11	74.6	62.4
83	15-May-00	N-15	Missile	2000-4000				Base	T1332	17	78.6	66.5
83	15-May-00	N-15	Missile	2000-4000				Base	T1332	24	73.1	62.3
83	15-May-00	N-15	Missile	2000-4000				Base	T1332	30	83.0	60.1
83	15-May-00	N-15	Missile	2000-4000				Base	T1333	4	83.8	60.5
83	15-May-00	N-15	Missile	2000-4000				Base	T1333	18	76.6	51.5
83	15-May-00	N-15	Missile	2000-4000				Base	T1335	5	77.4	67.7
83	15-May-00	N-15	Missile	2000-4000				Base	T1335	30	80.2	67.5
83	15-May-00	N-15	Impact	2000-4000				Base	T1336	5	84.0	64.4
83	15-May-00	N-15	Missile	2000-4000				Base	T1337	3	73.2	65.0
83	15-May-00	N-15	Missile	2000-4000				Base	T1337	15	75.2	59.7
83	15-May-00	N-15	Missile	2000-4000				Base	T1337	23	84.7	63.4
83	15-May-00	N-15	Missile	2000-4000				Base	T1340	2	76.4	65.0
83	15-May-00	N-15	Missile	2000-4000				Base	T1340	17	78.2	68.1
83	16-May-00	N-16	Missile	2000-4000				Base	T4	4	82.2	72.7
83	16-May-00	N-16	Missile	2000-4000				Base	T46	13	64.8	59.1
83	16-May-00	N-16	Missile	2000-4000				Base	T46	20	89.8	63.7
83	16-May-00	N-16	Missile	2000-4000				Base	T47	4	82.5	65.7
83	16-May-00	N-16	Missile	2000-4000				Base	T47	11	78.3	64.3
83	16-May-00	N-16	Missile	2000-4000				Base	T47	15	72.7	71.2
83	16-May-00	N-16	Missile	2000-4000				Base	T49	4	81.3	69.5
83	16-May-00	N-16	Missile	2000-4000				Base	T49	13	79.9	64.7
83	16-May-00	N-16	Missile	2000-4000				Base	T49	20	92.8	69.6
83	16-May-00	N-16	Missile	2000-4000				Base	T50	5	81.1	68.3
83	16-May-00	N-16	Missile	2000-4000				Base	T50	11	75.8	63.2
83	16-May-00	N-16	Missile	2000-4000				Base	T50	18	91.2	69.6
83	16-May-00	N-16	Missile	2000-4000				Base	T51	6	77.5	64.7
83	16-May-00	N-16	Missile	2000-4000				Base	T52	3	80.8	67.5
83	16-May-00	N-16	Missile	2000-4000				Base	T53	6	79.8	68.4

83	16-May-00	N-16	Missile	2000-4000				Base	T54	5	79.6	69.2
83	16-May-00	N-16	Missile	2000-4000				Base	T54	10	80.0	64.6
83	16-May-00	N-16	Impact	2000-4000				Base	T55	4	84.4	60.8
83	16-May-00	N-16	Missile	2000-4000				Base	T56	5	80.6	68.6
83	16-May-00	N-16	Missile	2000-4000				Base	T56	16	78.1	65.6
83	16-May-00	N-16	Impact	2000-4000				Base	T57	4	86.2	60.3
83	16-May-00	N-16	Missile	2000-4000				Base	T58	5	81.1	67.8
83	16-May-00	N-16	Missile	2000-4000				Base	T59	17	84.3	72.5
83	16-May-00	N-16	Missile	2000-4000				Base	T59	25	91.0	64.9
83	16-May-00	N-16	Missile	2000-4000				Base	T60	4	79.1	68.4
83	16-May-00	N-16	Missile	2000-4000				Base	T60	13	76.0	60.3
83	16-May-00	N-16	Missile	2000-4000				Base	T60	21	90.2	67.5
83	16-May-00	N-16	Missile	2000-4000				Base	T61	5	83.0	66.5
83	16-May-00	N-16	Missile	2000-4000				Base	T61	15	78.7	65.9
83	16-May-00	N-16	Impact	2000-4000				Base	T62	4	77.4	54.5
83	16-May-00	N-16	Missile	2000-4000				Base	T65	4	79.9	66.4
83	16-May-00	N-16	Missile	2000-4000				Base	T67	11	83.4	70.3
83	16-May-00	N-16	Missile	2000-4000				Base	T67	18	89.4	67.9
83	16-May-00	N-16	Missile	2000-4000				Base	T69	3	88.3	74.2
83	16-May-00	N-16	Missile	2000-4000				Base	T69	6	92.1	71.0
83	16-May-00	N-16	Missile	2000-4000				Base	T70	4	83.4	70.8
83	16-May-00	N-16	Missile	2000-4000				Base	T70	10	88.8	70.1
83	16-May-00	N-16	Missile	2000-4000				Base	T71	11	87.0	70.7
83	16-May-00	N-16	Impact	2000-4000				Base	T72	3	83.9	54.8
83	16-May-00	N-16	Missile	2000-4000				Base	T73	4	87.5	70.3
83	16-May-00	N-16	Missile	2000-4000				Base	T73	8	91.2	73.2
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T825	14	105.0	95.5
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T826	6	100.6	93.8
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T826	11	100.3	93.5
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T826	19	100.8	94.1
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T827	11	103.3	95.0
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T828	10	103.7	93.8
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T828	22	102.5	90.9
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T828	30	101.1	88.8
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T829	10	103.8	91.5
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T829	29	103.5	90.4
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T830	7	103.5	88.6
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T831	9	103.6	95.0
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T832	11	103.6	95.4
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T833	11	104.8	92.3
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T834	10	103.6	95.0
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T835	8	103.9	94.5

88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T836	10	103.0	94.8
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T837	9	103.2	93.9
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T838	10	105.4	94.1
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T838	19	101.0	91.7
88	11-Apr-00	Pre-nesting	MLRS	750-1000				Base	T839	10	103.4	90.0
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T471	8	67.4	60.5
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T472	12	79.7	66.9
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T473	8	102.0	80.5
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T474	8	102.2	81.0
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T475	7	100.8	78.0
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T475	18	102.8	89.9
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T476	7	103.0	89.1
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T570	6	80.8	60.5
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T572	7	82.0	60.9
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T573	6	78.4	60.8
88	12-Apr-00	Pre-nesting	MLRS	750-1000				Base	T574	7	81.1	62.5
88	16-May-00	N-1	Missile	750-1000	0			Base	T569	6	69.0	42.0
99	15-May-00	N-8	Missile	5000				Base	T1344	2	79.1	68.1
99	15-May-00	N-8	Missile	5000				Base	T1344	17	75.0	51.9
99	15-May-00	N-8	Missile	5000				Base	T1346	2	74.8	51.7
99	15-May-00	N-8	Missile	5000				Base	T1347	4	78.4	61.9
99	15-May-00	N-8	Missile	5000				Base	T1347	10	81.9	61.1
99	15-May-00	N-8	Missile	5000				Base	T1347	16	77.4	62.0
99	15-May-00	N-8	Missile	5000				Base	T1347	19	81.5	57.6
99	15-May-00	N-8	Missile	5000				Base	T1348	2	80.8	67.1
99	15-May-00	N-8	Missile	5000				Base	T1348	7	85.1	62.5
99	15-May-00	N-8	Missile	5000				Base	T1348	15	69.2	46.5
99	15-May-00	N-8	Missile	5000				Base	T1349	4	78.9	54.9
99	15-May-00	N-8	Missile	5000				Base	T1349	16	76.5	51.4
99	15-May-00	N-8	Missile	5000				Base	T1350	3	69.2	50.1
99	15-May-00	N-8	Missile	5000				Base	T1351	2	73.9	51.0
99	15-May-00	N-8	Missile	5000				Base	T1351	8	75.7	53.2

Table D 14. Representative unweighted noise spectra for passive missile fire noise on Fort Stewart, GA, 2000.

CL	Date	Event Type	Event File #	Dist. (m)	Spec. #	10	13	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Overall SEL
83	5/15	Missiles	T1330	2000	3	60	61	73	78	75	78	76	75	74	73	73	68	68	64	64	61	61	61	61	60	58	54	51	46	41	35	35	33	19	28	23		20		86
83	5/15	Missiles	T1330	2000	9	66	69	68	66	66	62	67	66	66	68	65	64	60	60	57	58	58	58	59	58	57	55	52	47	42	31	34	32	26	26	19		17	9	78
83	5/15	Missile	T1331	2000	3	57	60	61	65	72	75	77	76	74	64	69	68	62	52	48	51	47	46	45	44	43	35	35	37	35	13	30	28	13	23	15	9	15		83
83	5/15	Impact	T1331	4000	11	68	69	69	72	73	71	72	76	75	67	62	63	56	57	51	49	48	48	49	49	48	46	43	41	40	32	34	31	26	26	18		13		82
83	5/15	Missile	T1332	2000	3	58	60	60	63	59	61	59	59	66	68	72	70	70	68	66	63	60	62	62	60	57	52	48	44	36	31	27	27	24	24	21	14	15		79
83	5/15	Missile	T1332	2000	11	62	62	62	59	56	64	65	65	65	67	65	54	54	56	56	55	53	55	57	57	55	51	48	43	36	29	25	26	19	21	17	1	11		75
83	5/15	Missile	T1332	2000	17	60	59	62	63	67	68	65	68	65	69	68	72	68	62	60	58	58	58	61	61	58	53	50	43	37	31	29	28	22	24	21	8	14		79
83	5/15	Missile	T1332	2000	24	61	65	64	59	55	65	59	58	60	58	56	56	54	54	54	53	52	55	57	57	54	52	49	43	36	29	27	26	16	20	17		8	4	73
83	5/15	Missile	T1332	2000	30	48	61	68	71	71	76	79	71	73	69	68	63	59	60	55	54	54	55	52	50	47	45	42	39	35	29	26	25	23	21	20	19	17	14	83
83	5/15	Missile	T1333	2000	4	64	68	72	75	72	76	79	72	73	68	63	63	59	60	55	54	54	55	53	51	49	42	43	39	35	29	28	25	22	22	21	19	18	14	84
83	5/15	Missile	T1333	2000	18	52	54	55	63	68	68	70	68	58	61	62	53	46	46	43	45	45	42	39	36	33	31	23	24	23	17	18	19	9	13	11		10		77
83	5/15	Missile	T1335	2000	5	56	64	68	62	59	69	64	66	63	68	65	63	62	62	63	60	62	60	61	62	60	55	51	45	38	31	29	29	24	24	22	4	14	1	77
83	5/15	Missile	T1335	2000	30	66	69	67	66	66	65	74	70	72	67	67	67	62	62	60	60	60	60	60	60	56	52	53	49	48	44	42	43	35	31	25		17	1	80
83	5/15	Missile	T1336	2000	5	63	68	69	75	76	77	72	68	73	73	68	68	64	64	56	55	56	57	58	54	53	51	48	47	47	43	42	44	37	30	23	20	19	16	84
83	5/15	Impact	T1337	4000	3	59	64	60	56	62	61	59	58	61	62	63	59	59	59	57	57	59	59	60	59	57	54	49	44	37	31	28	28	21	23	20	20	13		73
83	5/15	Missile	T1337	2000	15	67	67	66	62	63	68	62	58	60	64	57	55	53	53	53	53	52	52	53	54	52	49	46	40	35	27	28	26	14	21	16	13	7		75
83	5/15	Missile	T1337	2000	23	66	69	72	73	78	78	73	77	73	65	70	68	66	66	62	60	58	57	54	52	49	47	43	40	34	31	27	25	23	22	20	18	17	14	85
83	5/15	Missile	T1340	2000	2	54	64	68	67	64	58	63	64	62	61	69	67	60	60	59	59	60	57	60	60	56	52	48	42	35	29	26	27	21	22	20	1	13	1	76
83	5/15	Missile	T1340	2000	17	58	62	63	65	64	63	65	72	65	66	65	65	63	62	64	63	61	60	63	63	59	55	50	44	37	31	28	28	23	23	22	13	15	4	78
83	5/16	Missile	T46	2000	4	63	68	70	69	66	67	70	67	70	73	72	73	69	69	68	68	65	64	64	67	66	61	56	51	45	39	37	36	26	31	26		23		82
83	5/16	Missile	T46	2000	13	42	29	41	45	42	45	47	46	45	52	53	55	57	57	51	56	55	52	52	52	50	48	44	40	37	11	29	27	14	18	17		7		65
83	5/16	Missile	T46	2000	20	68	72	78	80	83	83	83	81	74	73	70	67	61	61	61	55	55	56	57	54	51	49	46	45	39	33	32	29	21	24	23	15	18	11	90
83	5/16	Missile	T47	2000	4	67	68	71	68	73	73	75	70	69	74	70	65	62	62	60	57	57	57	58	57	56	52	49	49	46	45	48	49	50	51	52	53	50	25	82
83	5/16	Missile	T47	2000	11	63	67	67	67	69	69	67	67	66	64	62	63	60	60	61	59	58	58	57	58	55	52	49	45	42	26	35	33	14	26	14	13	18	4	78
83	5/16	Missile	T47	2000	15	32	37	41	45	41	46	44	49	50	51	46	48	48	48	48	51	50	50	52	53	54	55	56	57	58	59	59	61	62	63	64	65	63	53	73
83	5/16	Missile	T49	2000	4	64	69	69	67	62	66	67	73	72	66	68	71	68	68	66	64	65	61	63	63	59	56	51	47	42	36	36	33	23	30	24	20	63	53	81

83	5/16	Missile	2000	T49	13	69	71	71	65	69	71	66	67	66	68	62	64	68	62	63	59	57	55	56	58	56	53	49	45	41	26	34	32	17	20	22	20		20		80
83	5/16	Missile	2000	T49	20	68	71	73	77	80	87	89	82	80	75	78	74	69	72	66	65	63	62	60	59	56	54	53	49	44	40	37	35	32	31	30	31	27	26	25	93
83	5/16	Missile	2000	T50	5	65	65	71	72	72	75	67	65	66	68	66	67	65	63	61	63	63	63	63	63	60	54	51	46	42	33	35	34	21	25	21	18		18		81
83	5/16	Missile	2000	T50	11	65	67	66	60	66	68	63	64	62	61	62	59	54	57	56	55	56	56	56	57	56	54	50	45	41	28	34	32		25	18	15		15		76
83	5/16	Missile	2000	T50	18	73	76	79	83	84	80	81	83	82	73	79	75	64	72	65	63	63	63	61	59	58	55	51	48	45	39	38	34	29	30	27	24	25	24	22	91
83	5/16	Missile	2000	T51	6	63	65	69	68	67	66	65	60	65	64	63	69	65	62	59	58	58	58	58	59	56	53	49	44	40	28	35	33		26	24	15		15		77
83	5/16	Missile	2000	T52	3	65	63	67	73	73	74	68	67	68	67	67	67	67	63	60	61	60	60	61	62	60	56	52	47	42	35	35	33	11	26	20	18		18		81
83	5/16	Missile	2000	T53	6	64	65	69	69	70	72	62	64	67	67	67	70	67	65	66	62	61	61	62	61	60	57	53	47	43	34	36	34	18	28	19	18		18		80
83	5/16	Missile	2000	T54	5	60	62	66	69	71	67	58	65	66	69	70	70	65	64	67	65	61	61	64	63	61	57	52	47	43	37	37	35	11	28	24	17	11	17		80
83	5/16	Missile	2000	T54	10	67	69	69	66	70	72	63	67	71	72	68	61	65	60	59	55	56	57	64	61	57	55	51	46	46	48	41	34	11	28	20	23	11	23		80
83	5/16	Impact	4000	T55	4	62	66	70	73	75	74	75	79	77	65	69	71	63	54	54	58	55	53	49	41	40	38	28	33	34	32	29	28	11	22	20	18	14	18		84
83	5/16	Missile	2000	T56	5	65	69	67	71	74	68	65	70	68	66	66	67	67	63	60	61	61	62	63	63	60	57	54	49	44	41	40	37	27	30	24	22		22		81
83	5/16	Missile	2000	T56	16	64	68	69	65	69	69	62	64	66	66	64	65	64	62	62	58	61	58	58	60	56	52	49	44	41	25	33	33	11	22	20	17		17		78
83	5/16	Impact	4000	T57	4	67	70	74	77	79	79	75	76	57	72	72	56	52	57	53	51	49	47	44	41	38	30	33	31	22	31	28	18	23	18	14	18	11	86
83	5/16	Missile	2000	T58	5	66	70	73	68	65	70	69	69	65	67	66	63	61	59	60	60	62	62	60	57	54	48	43	34	35	34	11	28	24	20	18	20		81
83	5/16	Missile	2000	T59	17	71	73	72	75	76	73	71	71	72	69	72	69	69	67	66	66	66	66	65	65	61	56	50	45	38	40	38	24	31	28	23	21	18	84
83	5/16	Missile	2000	T59	25	67	71	72	80	83	86	83	77	74	73	72	71	66	64	58	57	57	53	52	52	52	49	48	41	38	33	33	31	26	27	24	21	23	91
83	5/16	Missile	2000	T60	4	65	62	65	72	68	69	62	65	67	63	67	68	69	63	64	62	63	62	62	59	59	56	53	46	42	34	35	34	18	26	23	15		79
83	5/16	Missile	2000	T60	13	67	70	70	63	66	65	55	60	55	59	57	56	54	54	53	52	52	53	54	53	51	48	42	38	15	30	30	-242	21	20	14		76
83	5/16	Missile	2000	T60	21	64	68	72	75	81	80	83	86	79	73	76	75	66	65	65	61	61	60	65	55	53	49	45	43	41	36	35	32	28	27	24	22	19	90
83	5/16	Missile	2000	T61	5	66	69	74	77	78	71	65	63	65	68	65	66	66	64	60	59	60	60	64	61	54	50	45	41	29	35	33	25	22	17	17		83
83	5/16	Missile	2000	T61	15	70	71	70	64	68	72	65	62	61	63	62	60	59	57	59	56	57	59	64	61	58	55	51	46	43	36	39	39	38	40	40	39	42	79
83	5/16	Impact	4000	T62	4	63	63	62	65	64	67	71	69	70	65	60	65	57	55	51	48	44	44	42	38	37	33	32	30	28	23	15	20	19		77
83	5/16	Missile	2000	T65	4	65	67	66	74	73	72	65	58	62	63	64	66	62	60	59	61	59	62	60	57	55	51	45	41	30	35	33	28	20	19	20		80
83	5/16	Missile	2000	T67	11	71	67	69	72	74	78	72	72	69	66	69	69	68	67	66	64	63	64	63	64	62	60	55	49	45	37	40	38	34	35	34	36	32	20	83
83	5/16	Missile	2000	T67	18	67	69	75	76	78	81	82	83	81	77	74	73	68	67	66	62	62	60	63	68	64	53	49	45	41	34	36	32	29	28	27	24	24	23	89
83	5/16	Missile	2000	T69	3	53	50	57	61	65	66	72	75	82	83	82	78	70	69	71	67	67	71	66	61	60	62	58	51	49	43	39	36	32	32	30	25	31	20	88
83	5/16	Missile	2000	T69	6	69	73	77	81	85	86	85	82	77	77	75	69	73	72	66	65	65	64	62	60	60	59	57	55	51	51	47	44	39	36	33	30	30	28	92

Year	Date	Type	Wt	ID	Cnt	Readings (left-to-right)	Total
83	5/16	Missile	2000	T70	4	65 67 71 73 73 73 71 72 68 72 71 73 68 67 69 70 63 61 62 57 55 51 47 44 42 39 37 41 34 31 38 20 12	83
83	5/16	Missile	2000	T70	10	70 73 77 78 81 82 81 79 74 65 71 76 73 65 67 63 62 59 59 56 53 53 53 45 44 41 38 42 36 33 38 26 25	89
83	5/16	Missile	2000	T71	11	70 72 74 74 77 79 77 75 74 74 74 77 73 65 67 64 64 59 59 52 52 49 45 42 34 39 37 28 33 28 24 20 18	87
83	5/16	Impact	4000	T72	3	69 70 70 71 72 75 79 77 71 65 64 55 56 51 48 48 44 40 40 37 36 35 34 34 32 28 32 25 20 24	84
83	5/16	Missile	2000	T73	4	58 57 62 65 68 70 73 77 79 82 82 75 70 68 69 67 64 60 56 52 49 48 42 42 37 38 32 38 26 21 18	87
83	5/16	Missile	2000	T73	8	75 78 79 80 81 81 82 85 81 78 76 74 72 74 71 69 66 65 64 61 59 55 52 52 50 46 46 38 38 36 33 29	91
88	4/11	MLRS	750	T825	14	86 90 91 98 92 92 93 93 95 93 91 90 92 88 86 88 89 89 89 85 83 79 76 71 67 64 59 57 52 46	105
88	4/11	MLRS	750	T826	6	74 77 80 84 86 88 89 90 90 89 87 89 86 84 86 86 85 88 88 83 81 78 75 70 66 63 58 52 51 44 30	101
88	4/11	MLRS	750	T826	11	73 74 78 84 85 88 88 89 89 90 88 89 88 84 85 85 83 87 88 83 81 78 75 71 75 63 56 46 50 43 30	100
88	4/11	MLRS	750	T826	19	73 76 79 85 86 88 88 89 90 90 89 90 90 86 86 86 84 87 88 84 81 79 75 68 64 59 58 48 45	101
88	4/11	MLRS	750	T827	11	85 87 92 92 92 90 91 94 91 90 89 89 90 86 87 86 85 88 89 85 82 79 75 71 64 59 53 48 47 45	103
88	4/11	MLRS	750	T828	10	83 89 89 96 91 91 93 94 93 93 90 89 90 86 85 86 86 89 89 83 82 78 74 70 63 58 46 50 42	104
88	4/11	MLRS	750	T828	22	84 89 87 94 92 90 93 91 91 89 88 87 85 84 83 83 87 88 84 82 76 72 70 64 58 52 44 33	102
88	4/11	MLRS	750	T828	30	80 86 86 91 90 92 91 91 91 90 88 85 83 82 82 81 87 86 80 77 72 69 66 58 56 41 48 40 37	101
88	4/11	MLRS	750	T829	10	86 92 91 94 90 93 94 95 93 90 89 90 88 86 87 85 89 88 83 81 79 74 70 63 59 51 46 44 42	104
88	4/11	MLRS	750	T829	29	85 95 91 95 90 92 94 92 94 93 90 89 90 87 85 83 88 87 83 79 76 72 68 59 59 48 44 42	104
88	4/11	MLRS	750	T830	7	83 95 92 95 93 92 94 92 94 92 90 86 84 83 82 80 86 83 78 76 75 70 67 62 56 46 42 40	104
88	4/11	MLRS	750	T831	9	85 85 88 91 94 92 89 94 93 91 90 90 91 90 86 87 86 89 85 78 76 75 78 59 56 58 46 49 36 35	104
88	4/11	MLRS	750	T832	11	88 83 86 94 94 94 92 93 92 91 90 89 88 87 87 86 88 87 82 84 82 80 78 63 58 63 58 54 49 40	104
88	4/11	MLRS	750	T833	11	83 93 96 89 93 96 94 93 90 91 89 90 86 85 86 81 83 86 81 78 74 74 69 61 58 46 41 43 33	105
88	4/11	MLRS	750	T834	10	85 83 87 94 93 93 92 93 90 92 89 89 90 86 86 86 87 85 85 82 82 80 72 64 59 59 52 52 46 36	104
88	4/11	MLRS	750	T835	8	84 87 87 94 91 96 93 91 90 92 88 87 86 85 85 83 88 86 84 82 82 76 69 68 61 60 59 51 43 36	104
88	4/11	MLRS	750	T836	10	87 87 84 88 90 94 91 93 92 92 87 86 83 84 82 81 85 83 80 80 75 73 72 66 60 58 55 49 48 39	103
88	4/11	MLRS	750	T837	9	82 82 87 94 92 92 90 92 93 92 86 87 86 83 84 83 81 82 77 77 73 71 69 63 58 46 49 44 43 39	103
88	4/11	MLRS	750	T838	10	84 93 92 97 93 95 94 95 94 93 87 86 85 85 83 81 86 83 76 76 73 71 66 61 60 55 49 50 43 48 30	105
88	4/11	MLRS	750	T838	19	76 82 81 88 87 91 91 92 91 90 88 87 83 84 84 80 83 81 77 73 64 57 52 51 42 41	101
88	4/11	MLRS	750	T839	10	81 90 91 97 92 93 95 92 91 88 85 83 83 83 83 81 79 77 76 71 57 43 45 46 48 43 33	103
88	4/11	MLRS	750	T471	8	52 58 57 57 49 59 55 58 51 40 54 58 52 51 55 49 48 43 31	67
88	4/12	MLRS	750	T472	12	44 44 47 50 51 53 69 69 57 72 75 72 66 61 60 57 55 53 54 56 52 51 49 47 45 42 39 36 27	80
88	4/12	MLRS	750	T473	8	88 92 90 95 94 94 89 87 83 80 79 78 74 73 73 72 73 71 71 67 64 55 57 47 49 40	102

				ID	n																																		
88	4/12	MLRS	750	T474	8	85	90	88	95	93	94	96	93	86	82	82	82	78	77	75	72	72	75	74	73	72	71	67	65	62	40	57	54		49	44		41	41	102
88	4/12	MLRS	750	T475	7	86	91	88	93	92	94	93	90	82	79	80	79	75	74	72	70	70	71	72	70	69	68	63	62	60	38	58	55		49	42	31	39	31	101
88	4/12	MLRS	750	T475	18	85	91	88	94	93	93	93	93	87	84	87	81	84	82	83	81	79	81	83	83	81	81	78	75	71	64	60	57	42	52	46		43	31	103
88	4/12	MLRS	750	T476	7	85	92	90	95	94	94	91	88	87	86	87	80	86	85	82	79	79	80	83	83	79	79	76	73	69	62	59	57	31	50	45	19	43	38	103
88	4/12	MLRS	750	T570	6	70	71	71	76	70	67	64	63	63	63	63	63	63	59	57	56	54	54	53	52	51	49	42	42	39	12	35	33		29	19		12		81
88	4/12	MLRS	750	T572	7	73	76	72	70	73	72	65	65	65	64	66	66	63	60	57	57	54	54	52	51	51	42	42	40	40		37	35		30	24				82
88	4/12	MLRS	750	T573	6	65	70	70	73	68	70	66	67	66	64	66	66	63	56	60	56	54	54	52	52	50	48	44	39	35	30	30	30	26	31	29		26	26	78
88	4/12	MLRS	750	T574	7	67	70	72	73	66	67	63	66	64	66	66	66	63	57	59	56	53	54	54	53	50	46	41	36	31	31	33	32	22	29	28		20	5	81
88	5/16	Missile	750	T569	6	46	49	60	57	52	62	63	61	50	49	34	32	36	40	31	32	34	31	25	23	29	19	19	20	20		19	19	9	23	7		5		69
99	5/15	Missile	5000	T13442	2	48	54	58	64	67	65	69	67	69	73	59	62	67	62	59	59	60	63	64	60	55	51	46	39	35	31	32	30	31	32	22	15	18	15	79
99	5/15	Missile	5000	T13444	17	59	61	59	66	67	69	66	66	56	57	56	44	44	50	48	45	44	44	45	43	37	32	29	28	16	18	23	22	18	26	14		10		75
99	5/15	Missile	5000	T13462	2	53	58	59	62	67	65	71	66	56	56	48	45	46	51	51	54	53	54	54	48	39	36	33	36	27	12	24	26	12	18	11		9		75
99	5/15	Missile	5000	T13474	4	62	64	65	69	66	68	68	67	64	64	54	58	59	59	54	53	52	52	53	51	39	36	33	34	36	27	26	25	17	20	18	8	9	4	78
99	5/15	Missile	5000	T13471	10	56	61	66	69	71	74	76	75	70	63	66	59	55	56	56	59	58	59	55	54	44	41	38	34	35	36	36	34	23	26	20	18	16	14	82
99	5/15	Missile	5000	T13471	16	69	70	68	67	65	65	62	62	61	61	63	64	59	63	64	59	59	56	57	50	48	53	42	38	41	29	36	34	33	26	20	7	15		77
99	5/15	Missile	5000	T13471	19	68	69	69	71	73	75	73	72	67	66	65	51	53	52	53	59	57	53	49	47	46	36	36	33	36	26	28	27	16	21	17	15	13		82
99	5/15	Missile	5000	T13482	2	60	58	52	58	63	68	66	70	68	64	74	57	66	62	58	59	52	54	55	54	48	41	39	38	33	33	32	29	26	24	22	20	19	17	81
99	5/15	Missile	5000	T13487	7	77	75	76	74	73	76	75	74	65	70	69	57	57	57	56	55	53	54	53	48	45	43	39	38	40	38	38	35	31	32	30	27	20	14	85
99	5/15	Missile	5000	T13481	15	40	48	56	56	62	63	63	60	57	49	52	38	41	42	42	41	46	41	40	44	33	27	27	25	1	19	20	19		12	8	7	4		69
99	5/15	Missile	5000	T13494	4	70	67	67	68	69	72	71	65	62	58	60	57	54	56	54	52	54	48	46	54	41	39	35	34	33	16	30	27	16	26	19	6	12		79
99	5/15	Missile	5000	T13491	16	54	61	56	64	66	72	70	69	63	58	60	45	45	47	42	45	42	43	44	44	37	33	30	28	20	11	23	21	11	17	13		8		76
99	5/15	Missile	5000	T13503	3	52	54	54	54	61	61	63	59	52	53	52	42	42	42	44	43	43	44	41	44	39	34	32	31	14	25	23	22		19	11		6		69
99	5/15	Missile	5000	T13512	2	61	58	62	67	63	65	68	66	60	52	57	45	45	47	43	44	43	43	43	41	37	34	33	31	25	26	26	22		15	1		7		74
99	5/15	Missile	5000	T13511	8	71	69	68	68	68	61	60	55	52	53	57	46	42	45	47	45	47	42	40	39	38	41	38	36	29	20	30	27	20	23	20	17	14		76

Table D 15. Summary data for ambient sound levels on Fort Stewart, GA, 2000.

Cluster	Date	Nesting Phase & Day	Event Type	Mic Pos.	File #	Spec. #	AVG. LEQ (dB) at mic Flat	A
1	03-May-00	I-6	ambient	Base	T958	30	49.2	33.0
1	19-May-00	I-3	ambient	Base	T1169	30	49.9	38.4
1	23-May-00	I-7	ambient	Base	T1051	30	55.0	39.2
1	25-May-00	I-8	ambient	Base	T499	30	51.0	45.1
2	04-May-00	I-8	ambient	Base	T1002	30	47.2	42.2
2	08-May-00	N-1	ambient	Base	T1155	30	54.0	35.9
6	05-May-00	I-5	ambient	Base	T974	30	51.8	37.5
6	09-May-00	I-9	ambient	Base	T544	30	46.4	37.4
6	09-May-00	I-9	ambient	Base	T584	30	50.1	42.1
8	18-May-00	N-12	ambient	Base	T312	30	53.9	46.1
8	19-May-00	N-13	ambient	Base	T43	30	48.6	39.3
10	02-May-00	I-5	ambient	Base	T956	30	60.3	47.6
10	05-May-00	I-8	ambient	Base	T978	30	66.2	42.6
10	09-May-00	N-1	ambient	Base	T955	30	53.6	36.8
12	08-May-00	I-10	ambient	Base	T998	30	52.1	35.6
12	12-May-00	N-4	ambient	Base	T300	30	49.6	41.4
13	12-May-00	I-8	ambient	Base	T706	30	47.7	36.3
23	16-May-00	I-6	ambient	Base	T567	30	52.8	47.6
23	30-May-00	I-1	ambient	Base	T1174	30	51.4	43.7
23	02-Jun-00	I-4	ambient	Base	T1112	30	50.1	41.2
23	06-Jun-00	I-8	ambient	Base	T590	30	52.9	44.8
30	18-May-00	N-13	ambient	Base	T1995	30	50.7	40.5
32	08-May-00	I-4	ambient	Base	T817	30	45.4	32.0
32	10-May-00	I-6	ambient	Base	T92	30	49.1	40.8
36	10-May-00	I-8	ambient	Base	T547	30	49.5	36.6
38	25-Apr-00	I-10	ambient	Base	T554	30	55.9	45.8
39	15-May-00	Incubation	ambient	Base	T1345	30	49.5	43.1
39	23-May-00	Incubation	ambient	Base	T1352	30	49.5	41.6
39	27-May-00	Incubation	ambient	Base	T1257	30	45.5	33.5
39	28-May-00	Incubation	ambient	Base	T295	30	50.2	43.1
41	11-May-00	I-2	ambient	Base	T1062	30	43.1	43.1
41	02-Jun-00	I-1	ambient	Base	T1179	30	45.0	32.9
42	25-Apr-00	I-7	ambient	Base	T562	30	53.1	46.1
42	01-May-00	N-2	ambient	Base	T1368	30	47.5	33.1
44	25-Apr-00	I-7	ambient	Base	T564	30	46.8	41.5
47	10-May-00	N-1	ambient	Base	T1140	30	49.2	42.5

48	13-Apr-00	Pre-nesting	ambient	Base	T478	30	49.2	36.8
48	13-Apr-00	Pre-nesting	ambient	Base	T488	30	48.6	39.0
48	02-May-00	I-6	ambient	Base	T908	30	51.9	44.2
48	04-May-00	I-8	ambient	Base	T1063	30	54.2	44.7
51	18-May-00	I-9	ambient	Base	T887	30	56.9	40.9
53	17-May-00	I-6	ambient	Base	T1098	30	60.7	42.4
57	19-Apr-00	I-4	ambient	Base	T578	30	48.5	33.9
57	27-Apr-00	N-1	ambient	Base	T465	30	53.1	42.2
57	27-Apr-00	N-1	ambient	Base	T468	30	51.2	41.8
57	28-Apr-00	N-2	ambient	Base	T948	30	53.9	44.5
57	08-May-00	N-12	ambient	Base	T997	30	42.2	33.6
60	22-May-00	I-9	ambient	Base	T1249	30	53.1	39.6
61	23-May-00	I-6	ambient	Base	T512	30	48.6	47.4
61	23-May-00	I-6	ambient	Base	T542	30	51.6	44.5
62	08-May-00	I-10	ambient	Base	T818	30	45.4	41.2
62	08-May-00	I-10	ambient	Base	T982	30	48.9	41.2
62	11-May-00	N-2	ambient	Base	T1141	30	47.5	36.9
62	15-May-00	N-6	ambient	Base	T1163	30	50.1	39.6
71	10-May-00	N-3	ambient	Base	T549	30	45.7	32.5
73	26-Apr-00	I-2	ambient	Base	T1005	30	45.3	32.4
73	04-May-00	I-9	ambient	Base	T25	30	47.3	38.0
75	11-May-00	I-7	ambient	Base	T511	30	48.2	32.1
75	15-May-00	N-0	ambient	Base	T1082	30	39.0	37.1
75	18-May-00	N-3	ambient	Base	T1078	30	44.9	37.6
80	28-Apr-00	I-3	ambient	Base	T1993	30	50.1	44.7
80	12-May-00	I-7	ambient	Base	T322	30	39.0	32.0
80	12-May-00	I-7	ambient	Base	T496	30	38.5	32.1
80	16-May-00	N-0	ambient	Base	T1074	30	48.1	34.7
80	19-May-00	N-3	ambient	Base	T1170	30	48.1	35.8
81	02-May-00	I-4	ambient	Base	T957	30	42.8	34.6
81	01-Jun-00	I-5	ambient	Base	T1263	30	40.9	32.4
81	02-Jun-00	I-6	ambient	Base	T1177	30	46.9	42.9
81	05-Jun-00	I-9	ambient	Base	T500	30	49.4	40.6
82	24-May-00	I-7	ambient	Base	T534	30	55.4	42.0
83	19-Apr-00	Egg-laying	ambient	Base	T577	30	53.8	40.9
83	04-May-00	N-4	ambient	Base	T302	30	55.8	46.9
83	15-May-00	N-15	ambient	Base	T1334	30	58.1	40.5
83	16-May-00	N-16	ambient	Base	T64	30	52.7	40.5
84	26-Apr-00	I-2	ambient	Base	T1142	30	46.3	36.3

87	17-May-00	I-7	ambient	Base	T1076	30	48.9	35.6
88	16-May-00	N-1	ambient	Base	T555	30	50.9	42.0
88	16-May-00	N-1	ambient	Base	T568	30	47.7	33.9
99	05-May-00	I-9	ambient	Base	T294	30	52.8	46.5
99	15-May-00	N-8	ambient	Base	T1341	30	49.2	43.7
99	16-May-00	N-9	ambient	Base	T74	30	49.5	41.3
99	23-May-00	N-16	ambient	Base	T1362	30	56.7	48.9
103	05-May-00	I-8	ambient	Base	T98	30	53.1	42.0
107	04-May-00	I-2	ambient	Base	T1008	30	46.6	40.9
107	08-May-00	I-6	ambient	Base	T1160	30	44.8	37.1
107	11-May-00	I-9	ambient	Base	T532	30	53.8	45.6
107	15-May-00	N-2	ambient	Base	T1073	30	45.0	37.2
118	24-May-00	N-17	ambient	Base	T1109	30	46.6	45.4
121	24-May-00	N-6	ambient	Base	T1108	30	45.2	44.0
121	30-May-00	N-12	ambient	Base	T1260	30	47.4	38.8
122	08-May-00	N-2	ambient	Base	T993	30	46.4	32.2
126	11-May-00	I-6	ambient	Base	T1056	30	46.1	36.6
136	08-May-00	I-9	ambient	Base	T1003	30	53.7	42.4
139	11-May-00	I-7	ambient	Base	T507	30	50.4	42.2
139	11-May-00	I-7	ambient	Base	T550	30	50.1	34.4
139	15-May-00	N-0	ambient	Base	T565	30	52.0	45.7
148	01-May-00	I-8	ambient	Base	T1080	30	45.3	37.9
152	07-Jun-00	N	ambient	Base	T88	30	54.9	44.9
152	07-Jun-00	N	ambient	Base	T91	30	54.4	44.1
152	08-Jun-00	N	ambient	Base	T960	30	54.6	37.7
162	20-Apr-00	I-3	ambient	Base	T1104	30	50.5	37.5
163	24-May-00	N-15	ambient	Base	T516	30	53.7	45.6
171	08-May-00	N-5	ambient	Base	T995	30	43.2	38.0
172	12-May-00	I-8	ambient	Base	T1072	30	48.3	38.5
172	16-May-00	N-2	ambient	Base	T1075	30	45.0	36.3
179	03-May-00	N-1	ambient	Base	T1166	30	44.8	33.1
183	27-Apr-00	I-10	ambient	Base	T1173	30	49.6	43.7
183	28-Apr-00	N-0	ambient	Base	T950	30	53.2	45.0
184	18-May-00	I-5	ambient	Base	T885	30	48.9	43.3
184	23-May-00	I-10	ambient	Base	T991	30	38.8	35.9
184	25-May-00	N-1	ambient	Base	T1467	30	42.7	38.3
189	24-May-00	I-10	ambient	Base	T911	30	50.9	34.6
194	02-May-00	N-0	ambient	Base	T552	30	46.1	38.5
197	17-May-00	I-2	ambient	Base	T1168	30	45.0	38.4
197	22-May-00	I-7	ambient	Base	T1253	30	49.3	43.5

198	28-Apr-00	I-8	ambient	Base	T1992	30	49.6	38.1
203	12-Apr-00	Pre-nesting	ambient	Base	T571	30	50.0	41.4
205	08-May-00	N-0	ambient	Base	T996	30	50.1	37.5
206	10-May-00	I-9	ambient	Base	T1138	30	51.9	43.9
206	24-May-00	I-2	ambient	Base	T311	30	53.1	44.9
206	30-May-00	I-9	ambient	Base	T1175	30	48.2	35.6
206	05-Jun-00	N-3	ambient	Base	T82	30	46.2	31.9
207	02-May-00	I-5	ambient	Base	T596	30	46.2	37.7
207	05-May-00	I-8	ambient	Base	T1145	30	51.0	41.4
207	05-May-00	I-8	ambient	Base	T1154	30	51.8	34.7
207	09-May-00	N-1	ambient	Base	T1144	30	48.0	33.7
216	01-May-00	I-8	ambient	Base	T595	30	41.2	34.9
216	08-May-00	N-4	ambient	Base	T1184	30	43.4	37.9
221	18-May-00	I-4	ambient	Base	T1050	30	51.4	41.7
221	22-May-00	I-8	ambient	Base	T1171	30	53.8	39.4
221	24-May-00	N-1	ambient	Base	T497	30	53.6	42.6
228	01-May-00	I-6	ambient	Base	T490	30	52.7	44.9
228	01-May-00	I-6	ambient	Base	T492	30	45.5	40.9
228	04-May-00	I-9	ambient	Base	T819	30	48.9	45.1
232	10-May-00	I-9	ambient	Base	T593	30	40.0	37.9
267	28-May-00	I-5	ambient	Base	T313	30	52.4	45.0
267	29-May-00	I-6	ambient	Base	T75	30	52.1	44.3
267	30-May-00	I-7	ambient	Base	T27	30	57.3	49.4
267	07-Jun-00	N-4	ambient	Base	T1246	30	56.9	47.4
267	08-Jun-00	N-5	ambient	Base	T79	30	53.2	44.3
289	09-May-00	Incubation	ambient	Base	T1107	30	37.0	33.6
295	25-May-00	I-8	ambient	Base	T498	30	51.7	46.5
296	04-May-00	I-3	ambient	Base	T1994	30	48.7	41.6

Table D 16. Representative unweighted sound spectra for ambient sound levels on Fort Stewart, GA, 2000.

CL	Date	Event Type	File #	Spec. #	10	13	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Calc. Overall LEQ
1	5/3	ambient	T958	30	37	37	39	39	39	40	41	39	38	37	34	31	28	24	28	27	22	26	24	15	22	22	14	20	21	15	24	21	6	14	8		1		49
1	5/19	ambient	T1169	30	37	38	38	39	39	40	39	40	40	39	39	34	31	29	29	28	26	31	30	28	27	25	17	25	27	23	25	30	27	17	9	5	3		50
1	5/23	ambient	T1051	30	33	34	51	42	37	44	42	43	40	48	39	39	37	32	30	28	21	25	24	16	22	23	21	26	25	19	23	24	35	32	16	2	5		55
1	5/25	ambient	T499	30	34	35	44	37	37	41	38	37	37	39	35	32	30	29	32	34	37	38	38	37	35	32	26	28	32	26	25	24	34	39	20	8	8		51
2	5/4	ambient	T1002	30	36	33	35	34	34	34	33	34	34	32	30	30	27	27	31	33	34	36	36	35	34	32	28	26	25	20	26	26	27	19	12	4	4		47
2	5/8	ambient	T1155	30	36	39	40	42	42	43	45	49	45	43	39	41	36	27	29	28	22	25	24	14	22	21	12	19	20	7	23	30	26	17	10	2	5		54
6	5/5	ambient	T974	30	41	41	42	42	41	44	42	39	39	43	38	32	29	20	25	24	11	22	22	15	22	22	21	26	28	27	26	32	15	14	10	3			52
6	5/9	ambient	T544	30	31	29	31	33	32	36	36	33	34	38	37	38	31	28	27	25	11	23	23	13	23	24	22	21	19	9	23	24	27	35	18	3	3		46
6	5/9	ambient	T584	30	36	34	41	37	16	40	38	41	41	38	28	41	36	21	37	36	21	35	34	28	33	32	22	29	30	26	30	31	18	24	15	16	13	8	50
8	5/18	ambient	T312	30	41	30	44	41	35	43	44	45	45	42	36	44	39	28	40	39	21	39	31	28	36	36	27	35	34	29	37	36	31	28	19	17	17	5	54
8	5/19	ambient	T43	30	36	34	38	39	33	39	37	34	40	35	25	38	34	21	34	33	20	34	32	23	30	30	21	27	26		28	25		25	15	10			49
10	5/2	ambient	T956	30	40	45	47	46	47	49	51	51	53	52	50	45	42	37	36	39	39	38	38	37	34	32	26	25	28	30	33	44	29	24	18	5	5		60
10	5/5	ambient	T978	30	56	56	60	58	57	56	55	52	51	46	40	41	37	28	37	37	25	37	35	28	34	34	23	30	29	12	28	27	22	21	18	13	21	19	66
10	5/9	ambient	T955	30	35	37	39	40	45	50	41	41	43	41	39	36	33	29	31	31	31	32	31	28	27	25	15	21	20	1	18	16	3	15	7		2	22	54
12	5/8	ambient	T998	30	37	34	35	35	33	50	45	35	36	32	24	32	29	16	30	29	17	28	27	21	27	26	15	24	23	7	26	24		15	7	7	7		52
12	5/12	ambient	T300	30	40	22	39	39	34	40	39	42	41	38	31	39	35	22	36	33	19	33	32	22	31	30	23	27	28		32	30	25	34	22	13	7		50
13	5/12	ambient	T706	30	33	35	38	37	36	38	39	44	42	37	32	30	27	25	29	30	28	30	27	22	24	24	16	22	24	25	27	26	20	17	9	2	13	19	48
23	5/16	ambient	T567	30	40	40	43	43	41	41	41	39	40	38	36	34	29	25	29	30	28	30	28	26	26	25	17	21	25	28	32	46	35	22	28	9	2	22	53
23	5/30	ambient	T1174	30	38	38	40	41	41	41	40	39	43	41	39	33	31	31	32	34	38	39	36	35	34	32	28	25	24	24	35	28	13	15	9	3	7		51
23	6/2	ambient	T1112	30	36	22	39	38	29	40	41	35	38	38	31	40	35	29	36	34	20	35	34	27	33	31	24	29	29	13	29	27	14	21	13	13	13	5	50
23	6/6	ambient	T590	30	40	0	42	38	31	42	42	39	38	37	32	43	39	27	39	38	22	38	32	32	36	35	27	33	33	30	33	32	20	34	17	16	6		53
30	5/18	ambient	T1995	30	37	38	41	42	38	40	41	35	40	37	29	38	34	24	36	35	25	35	33	29	32	31	22	28	28		25	25	13	18	12	11	11		51
32	5/8	ambient	T817	30	36	34	36	39	35	35	34	32	32	35	26	28	25	19	26	25	15	24	23	15	22	21	14	20	20	11	24	22	8	14	7	1	2		45
32	5/10	ambient	T92	30	39	34	37	37	30	38	38	39	38	26	32	37	33	21	35	34	23	35	34	28	32	31	18	28	27		31	28	14	19	13	13	5		49
36	5/10	ambient	T547	30	37	38	37	39	39	40	40	37	36	38	29	31	28	21	27	29	27	30	29	25	26	24	13	21	22	19	29	27	11	14	7	10	2		50
38	4/25	ambient	T554	30	50	48	48	46	44	42	41	40	36	37	38	35	33	32	33	35	36	38	39	39	39	37	34	30	28	20	24	22	13	18	15	11	16	32	56
39	5/15	ambient	T1345	30	37	37	37	39	39	40	39	37	36	34	29	30	26	18	29	31	31	35	35	34	32	30	23	26	32	31	30	34	33	22	13	4			49

No.	Date	Type	Tree																																			
39	5/23	ambient	T1352	30	35	24	40	37	0	40	29	37	41	38	26	36	21	36	35	19	35	34	27	32	32	24	30	29	13	31	30	18	23	15		15	49
39	5/27	ambient	T1257	30	32	33	34	35	33	34	35	36	36	36	30	26	11	26	26	11	25	24	16	24	22	12	23	23	17	23	20		24	8		4	45
39	5/28	ambient	T295	30	41	36	38	37		39		37	40	36	28	38	20	38	37	26	38	37	29	35	34	23	30	29		31	27		22	15	20	13	50
41	5/11	ambient	T1062	30	23	9	26	24	6	26	3	24	27	22		21		20	21	2	21	21	13	22	23	23	31	33	35	34	36	34	26	23		8	43
41	6/2	ambient	T1179	30	31	32	32	34	33	33	33	34	36	34	33	34	30	28	26	17	24	23	15	22	21	13	21	24	17	22	20		14	9		4	45
42	4/25	ambient	T562	30	40	29	39	40	35	44	40	42	45	40	35	36	16	37	37	31	41	40	38	39	37	28	32	32	1	29	28	5	20	14	2	12	53
42	5/1	ambient	T1368	30	36	36	35	37	38	38	37	39	36	37	29	26	21	27	26	20	27	26	22	24	23	17	20	19	4	20	18		15	7		3	48
44	4/25	ambient	T564	30	33	33	34	35	34	34	33	34	33	36	28	27	22	29	31	33	36	36	36	34	31	25	25	24	13	19	17	12	11	7		2	47
47	5/10	ambient	T1140	30	31	32	34	40	35	34	38	39	39	34	35	35	35	35	34	33	34	35	33	31	28	23	25	37	25	23	21		20	17	13	6	49
48	4/13	ambient	T478	30	37	35	38	45	37	37	39	38	35	33	28	31	23	31	30	20	31	29	24	29	28	19	25	24	12	25	19	17	12	5		5	49
48	4/13	ambient	T488	30	35	35	38	41	38	38	34	39	35	35	30	31	23	31	30	24	33	33	31	32	30	19	25	25	7	25	22		13	6		3	49
48	5/2	ambient	T908	30	34		41	41		42	32	40	43	39	30	31	29	31	30	24	39	37	31	35	35	22	21	31		32	32	11	27	19		16	52
48	5/4	ambient	T1063	30	40	44	44	41	41	44	44	44	43	43	43	39	31	40	39	31	32	31	30	29	26	25	29	31	33	34	40		20	15		5	54
51	5/18	ambient	T887	30	38	40	43	44	48	47	48	48	49	48	42	33	29	31	30	34	35	35	34	32	30	25	29	33	22	22	21	22	14	8	13	2	57
53	5/17	ambient	T1098	30	39	41	45	60	42	41	46	48	45	41	39	34	34	31	32	35	36	35	33	29	27	13	32	28	27	26	33		19	13		4	61
57	4/19	ambient	T578	30	37	38	40	40	39	37	36	37	40	35	30	36	17	35	35	18	26	24	17	23	22	20	21	25	23	25	22	9	12	6		3	49
57	4/27	ambient	T465	30	44	42	44	42	40	42	36	42	41	39	34	25	30	26	26	22	37	36	26	34	33	19	29	29	20	31	27		21	12		14	53
57	4/27	ambient	T468	30	38	24	40	38	44	41	40	40	41	39	30	39	20	38	36	22	35	35	24	32	33	29	29	28	25	35	29		23	16		14	51
57	4/28	ambient	T948	30	41	34	43	42	40	45	34	44	44	43	33	37	21	37	36	21	39	37	26	35	35	21	32	32	23	31	32	21	24	18		17	54
60	5/8	ambient	T997	30	28	27	30	30	31	33	33	33	32	29	21	24	12	24	23	9	23	22	14	22	21	18	23	22	11	28	19	31	23	24	24	20	42
61	5/22	ambient	T1249	30	39	40	41	41	41	42	43	43	44	44	40	37	36	39	38	33	31	29	24	25	24	23	31	31	22	26	24		24	13		6	53
61	5/23	ambient	T512	30	32	33	33	34	33	33	36	36	35	32	27	24	11	24	26	13	23	22	11	21	18	7	21	27	17	31	43	40	22	21	12	9	49
62	5/23	ambient	T542	30	37	0	39	39	31	33	28	40	43	40	33	38	26	28	38	22	38	36	32	35	21	23	24	23	23	28	33		25	17		14	52
62	5/8	ambient	T818	30	32	33	32	32	32	33	34	33	31	31	28	26	23	23	23	8	23	22	10	21		13	28	23	0	23	37		28	38	30	19	45
62	5/8	ambient	T982	30	36		39	36	24	38		35	37	36	37	35	25	37	36	22	35	34	26	33	29	23	31	32	22	31	27	27	26	18	22	10	49
62	5/11	ambient	T1141	30	33	36	35	37	37	37	35	37	39	39	26	26	15	24	23	5	23	22	13	21	31	7	21	25	23	31	31		27	14	3	3	47
62	5/15	ambient	T1163	30	37	39	40	39	40	39	38	40	39	39	37	29	22	28	30	32	34	34	33	31	23	23	24	25	23	31	19	16	15	7	2	3	50
71	5/10	ambient	T549	30	38	36	37	36	34	33	33	33	34	32	27	25	19	27	27	23	27	25	18	23	13	13	22	20	12	20	16	4	11	6		1	46

#	Date	Type	Tube	30																																	
73	4/26	ambient	T1005	30	34	33	34	33	31	34	34	33	35	36	35	32	28	28	23	27	25	18	23	22	13	20	19	7	19	16	8	13	7		3		45
73	5/4	ambient	T25	30	37	36	36	35	37	36	36	36	32	37	29	26	27	24	13	25	29	22	27	24	21	22	20	21	32	23	11	14	8		3		47
75	5/11	ambient	T511	30	33	33	37	35	37	37	38	38	41	39	34	30	25	27	23	14	24	13	22	9	20	12	21	20	23	8	13	6		2	9	48
75	5/15	ambient	T1082	30	23	6	25					27	22		26	21	22	28	15	29	28	22	25	23	16	25	24	22	25	19	18	13	6	12	2		39
75	5/18	ambient	T1078	30	30	29	33	32	33	33	35	35	34	31	31	26	28	28	29	26	28	24	30	27	23	16	24	24	28	31	11	27	11		7		45
80	4/28	ambient	T1993	30	35	36	36	37	37	38	39	39	36	36	34	32	29	31	37	39	34	29	40	39	37	31	28	39	35	22	1	31	16	12	7		50
80	5/12	ambient	T322	30	29	31	27	23	26	24	11	27	32	23	26	26	23	16	15	16	25	13	19	10	20	10	9	24	21	18	13	12	7		4		39
80	5/12	ambient	T496	30	28	28	28	29	22	26	28	11	28	24	23	27	22	17	12	17	24	22	22	9	19	9	15	25	21	18	18	15	8	13	5		39
80	5/16	ambient	T1074	30	39	38	40	38	35	36	36	32	26	24	28	28	21	21	24	16	25	22	25	22	23	24	22	25	24	16	20	16	11	11	2		48
80	5/19	ambient	T1170	30	33	34	37	37	38	37	39	39	32	26	33	30	27	19	22	16	27	22	22	27	21	12	16	27	27	21	21	14	8	3	9		48
81	5/2	ambient	T957	30	30	30	31	32	31	32	30	25	28	30	28	25	25	20	21	19	27	22	22	21	20	9	9	26	28	17	20	7	9	12	1		43
81	6/1	ambient	T1263	30	27	27	29	30	29	31	29	18	30	25	26	24	14	18	21	17	25	23	22	21	20	15	15	27	21	8	17			13	4	4	41
81	6/2	ambient	T1177	30	32	34	35	36	36	35	35	26	32	27	24	24	17	16	24	16	25	22	22	22	21	19	22	25	24	17	20	8	17	13	6		47
81	6/5	ambient	T500	30	30	35	38	38	38	40	38	32	30	30	27	24	22	16	23	19	27	22	27	27	21	12	16	25	20	21	21	34	16	14	6	4	49
82	5/24	ambient	T534	30	41	41	42	43	43	44	47	39	43	51	36	35	31	33	36	33	36	30	36	29	25	21	9	25	24	25	25	34	27	26	4	26	55
83	4/19	ambient	T577	30	39	36	40	44	46	47	42	33	40	43	38	38	24	28	35	34	34	36	37	28	29	15	25	25	25		17	11	17	26	10		54
83	5/4	ambient	T302	30	37	31	44	44	44	48	45	34	43	46	43	39	25	24	39	30	37	38	31	30	20	19	15	25	25	32	31	11	16	25	17	1	56
83	5/15	ambient	T1334	30	52	52	51	46	48	44	44	36	40	41	37	43	24	29	33	34	34	37	27	22	32	21	19	37	36	20	28	34	27	18	3		58
83	5/16	ambient	T64	30	41	41	40	33	41	42	37	37	40	40	38	35	20	26	28	25	29	31	25	17	21	12	21	28	24	27	28	38	27	23	12		53
84	4/26	ambient	T1142	30	31	32	39	38	38	37	41	39	37	36	36	30	28	22	21	20	23	20	27	20	21	19	13	33	23	28	29	24	26	23	3		46
87	5/17	ambient	T1076	30	36	38	40	39	39	37	37	27	40	36	35	41	36	21	22	12	34	27	37	24	21	12	19	32	35	24	22	5	13	10	2		49
88	5/16	ambient	T555	30	39		39	40	38	38	36	35	37	35	32	30	24	21	27	23	24	30	36	30	23	19	13	32	24	19	29	19	25	7	12		51
88	5/16	ambient	T568	30	34	37	38	38	38	36	36	35	40	37	35	41	31	25	36	24	33	32	39	30	22	13	18	39	27	23	23	23	23	10	2		48
99	5/5	ambient	T294	30	39		41	39	43	42		44	41	28	30	39	44	26	39	36	42	43	32	22	35	24	25	33	38	41	34	18	26	18	19	4	53
99	5/15	ambient	T1341	30	37	36	38	37	38	37	36	35	35	30	28	30	37	19	35	24	33	37	21	26	24	21	24	29	33	27	36	33	24	12	4		49
99	5/16	ambient	T74	30	39	30	40	40	33	42	37	39	38	27	39	35	43	30	36	20	34	31	24	21	22	15	10	32	30	25	30	26	24	15	2		49
99	5/23	ambient	T1362	30	42	37	46	43	29	47	45	48	45	35	32	43	48	26	43	36	39	43	31	27	39	31	26	39	36	38	30	38	30	24	18	14	57
103	5/5	ambient	T98	30	38	30	41	40	31	42		44	41	28	30	36	37	26	36	29	34	36	25	20	33	18	24	33	36	30	29	27	20	14	13		53
107	5/4	ambient	T1008	30	28	29	31	31	32	30	37	36	35	33	34	34	30	24	21	21	33	34	21	17	29	25	13	29	28	21	21	17	7	16	2		47
107	5/8	ambient	T1160	30	33	29	31	32	32	32	34	36	33	33	31	31	26	22	24	31	30	28	24	31	22	15	15	22	30	27	26	23	8	15	2		45
107	5/11	ambient	T532	30	40	42	40	25	43	42	38	45	42	32	45	40	31	26	40	30	38	41	37	21	32	6	21	37	32	40	42	28	23	16	15		54

No.	Date	Type	ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
107	5/15	ambient	T1073	30	31	34	35	36	34	33	34	33	33	33	33	29	25	16	25	24	15	24	23	11	21	21	11	22	23	19	27	35	16	16	10			3		45
118	5/24	ambient	T1109	30	32	31	30	26	25	19	26	27	20	27	23	27	22	11	22	29	31	29	36	38	34	36	35	30	36	36	31	31	29	27	17			9	12	47
121	5/24	ambient	T1108	30	29	27	28	26	16	26	25	27	9	27	22	22	31	9	27	25	30	27	29	28	33	24	34	34	30	23	27	38	29	24	32			9	14	45
121	5/30	ambient	T1260	30	36	35	37	38	36	36	35	36	36	34	31	41	36	21	26	31	29	31	34	30	27	22	32	36	35	34	19	17	13	8	8			3	6	47
122	5/8	ambient	T993	30	36	35	35	36	35	39	37	34	35	36	32	15	34	13	24	23	10	23	22	15	22	22	19	12	20	12	20	18	22	13	13			5	10	46
126	5/11	ambient	T1056	30	30	30	32	34	36	35	36	37	36	38	30	27	31	29	29	30	31	30	23	31	26	24	32	27	22	26	21	18	12	8	8			3		46
136	5/8	ambient	T1003	30	36	39	42	47	43	42	43	44	42	44	36	9	22	22	31	26	17	24	23	27	22	20	20	17	22	36	38	18	18	12	12			4		54
139	5/11	ambient	T507	30	37	19	40	39	27	41	39	29	41	39	41	25	36	24	9	24	17	36	34	35	33	29	34	37	38	19	32	17	22	22	24			12		50
139	5/11	ambient	T550	30	36	41	38	40	41	39	39	40	39	40	36	14	23	9	21	25	29	23	24	29	36	26	24	27	14	20	21	22	17	14	9		6	1		50
139	5/15	ambient	T565	30	41	41	40	41	40	40	39	38	40	38	40	40	32	30	29	21	33	29	22	25	23	22	25	30	35	30	33	31	29	14	9		18	1		52
148	5/1	ambient	T1080	30	37	35	35	35	33	32	32	31	28	30	37	28	32	40	38	31	29	30	36	27	25	36	22	32	31	28	25	29	19	27	20			9	16	45
152	6/7	ambient	T88	30	41	39	47	44	44	43	45	44	44	39	41	24	42	39	39	33	32	40	38	27	36	33	24	22	8	23	30	31	25	22	14			14		55
152	6/7	ambient	T91	30	41	42	46	44	42	43	43	43	42	38	41	31	32	40	39	34	28	39	37	31	21	32	20	22	2	29	16	21	11	21	15			12		54
152	6/8	ambient	T960	30	36	40	42	42	42	45	46	45	41	31	36	26	23	29	26	31	34	30	29	27	24	20	14	24	14	23	20	17	7	14	7			3		55
162	4/20	ambient	T1104	30	39	37	39	39	39	41	42	40	40	39	39	29	30	32	33	35	26	33	40	27	25	38	21	32	20	20	18	17	16	17	16			7	16	51
163	5/24	ambient	T516	30	39	36	41	41	36	35	41	34	38	39	39	32	38	33	40	30	23	33	38	38	36	40	12	38	18	20	32	29	6	23	20			15		54
171	5/8	ambient	T995	30	28	31	32	32	32	34	35	33	31	28	28	14	22	27	22	24	8	24	22	14	25	22	17	27	27	16	29	21	25	13	13			5		43
172	5/12	ambient	T1072	30	31	32	35	38	35	31	28	37	36	33	31	31	29	29	26	31	29	22	14	31	36	21	27	32	11	19	31	24	2	27	6			2		48
172	5/16	ambient	T1075	30	33	35	37	35	37	31	31	30	32	28	27	27	23	26	19	27	30	20	20	27	24	21	13	30	7	17	21	17	14	22	17			8	15	45
179	5/3	ambient	T1166	30	32	33	39	33	32	32	32	36	32	29	32	13	25	12	23	25	30	20	21	22	13	28	25	31	16	16	21	23	17	18	10			3		45
183	4/27	ambient	T1173	30	42	36	41	42	41	41	40	32	34	44	42	36	27	27	30	32	26	25	32	34	36	30	27	21	21	23	23	29	17	17	16			7	7	50
183	4/28	ambient	T950	30	41	39	39	41	42	40	44	31	44	41	41	26	30	35	35	28	24	34	38	36	30	33	20	24	25	31	24	21	18	19	13			15		53
184	5/18	ambient	T885	30	36	37	38	41	38	36	34	27	28	29	36	16	24	28	23	24	10	23	27	33	33	27	24	20	2	11	31	24	15	18	6			5		49
184	5/23	ambient	T991	30	24	9	26	24	10	27	23	27	29	28	27	18	21	24	17	25	7	24	22	21	26	22	14	20	3	7	21	17	29	15	15			2	4	39
184	5/25	ambient	T1467	30	33	33	32	31	27	23	29	23	27	30	23	22	22	25	24	22	13	26	23	22	30	28	28	18	10	22	26	23	17	12	15			8	5	43
189	5/24	ambient	T911	30	36	37	41	42	41	41	41	40	40	41	36	30	23	26	19	27	24	27	25	25	35	33	18	28	24	18	23	21	7	19	8			3		51
194	5/2	ambient	T552	30	34	36	36	35	36	31	33	33	31	33	34	29	26	22	32	30	22	23	28	29	28	32	23	27	22	19	27	19	9	9				1		46
197	5/17	ambient	T1168	30	31	33	34	35	34	33	29	31	29	33	31	29	25	21	28	28	21	30	32	27	29	22	17	30	21	24	22	28	13	9	13			3		45

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197	5/22	ambient	T1253	30	35	37	37	39	38	36	39	36	34	34	37	36	33	33	31	30	31	29	26	27	25	29	36	37	33	35	29	18	16	16	9	5	49
198	4/28	ambient	T1992	30	37	38	39	39	40	40	39	36	30	34	38	35	30	24	20	32	35	36	28	31	29	32	31	30	20	18	29		5	13		1	50
203	4/12	ambient	T571	30	39	27	40	38	39	25	35	26	24	20	35	34	36	35	36	35	36	34	27	33	32	34	30	30	35	29	29	20	13	12		12	50
205	5/8	ambient	T996	30	44	45	40	41	35	36	40	31	31	24	38	35	27	26	29	28	27	24	21	25	31	26	27	21	18	25	26	17	14	13	11	7	50
206	5/10	ambient	T1138	30	36	37	40	42	36	35	42	35	34	40	37	30	34	23	28	23	28	24	24	26	26	28	30	30	28	31	41	22	15	14	19	4	52
206	5/24	ambient	T311	30	43	42	42	41	41	40	41	39	39	34	40	31	38	31	37	40	29	18	36	37	35	39	31	30		31	26	24	17	8	1	12	53
206	5/30	ambient	T1175	30	36	37	39	38	38	38	39	35	35	31	35	28	27	18	26	24	29	11	25	26	24	28	20	20	19	26	22	23	8	8		2	48
206	6/5	ambient	T82	30	31	33	35	35	36	35	38	31	31	29	30	27	25	21	27	17	25	16	17	23	22	23	21	18		18	14		12	8		2	46
207	5/2	ambient	T596	30	31	34	35	34	38	36	34	37	40	29	40	35	37	21	19	18	35	16	24	33	23	34	30	29	24	32	27	30	29	20	12	7	46
207	5/5	ambient	T1145	30	36	18	40	36	41	41	49	41	38	15	40	27	27	19	35	15	23	21	24	33	32	34	30	29	26	31	30	20	13	9		11	51
207	5/5	ambient	T1154	30	34	35	39	37	34	31	41	31	34	26	32	25	19	19	23	8	23	11	16	22	22	22	20	20	20	29	24	8	16	14	12	3	52
207	5/9	ambient	T1144	30	40	41	39	37	33	31	41	29	34	16	29	26	20	20	28	21	26	10	16	23	22	24	20	20	22	26	22	15	16	14		4	48
216	5/1	ambient	T595	30	31	28	31	34	30	30	31	28	28	16	28	24	17	16	25	17	25	13	20	24	23	25	21	22	24	27	26	21	16	7	12	4	41
216	5/8	ambient	T1184	30	32	34	32	32	38	39	39	35	30	32	31	35	27	21	23	14	23	21	15	27	24	22	27	32	29	26	25	19	16	11	5	4	43
221	5/18	ambient	T1050	30	38	41	40	43	42	41	39	36	32	33	30	29	25	25	31	32	33	21	29	27	25	32	29	30	30	27	31	37	21	14	15	3	51
221	5/22	ambient	T1171	30	35	36	47	41	43	44	46	37	34	34	37	32	37	37	32	31	34	18	37	25	24	28	25	28	30	25	25	30	20	14	15	5	54
221	5/24	ambient	T497	30	40	40	41	41	42	43	46	36	39	39	36	31	33	31	38	35	36	21	24	32	29	36	34	24	20	25	28	37	23	15	15	20	54
228	5/1	ambient	T490	30	35	28	40	32	43	43	44	41	29	24	29	28	33	28	39	25	33	25	16	36	35	37	33	33		34	34		24	16		17	53
228	5/1	ambient	T492	30	32	30	32	33	33	33	32	32	23	23	29	31	30	17	31	34	36	20	20	31	29	37	29	25	25	23	26	30	17	14	8	3	45
228	5/4	ambient	T819	30	33	27	39	35	38	39	38	35	35	26	36	30	33	21	32	15	33	17	22	29	29	30	28	32	31	34	43	25	23	15	5	8	49
232	5/10	ambient	T593	30	24	16	27	24	25	32	39	40	27	3	21	29	24	8	24	14	20	17	15	28	22	30	22	23	21	27	29	21	29	14	14	7	40
267	5/28	ambient	T313	30	40		41	41	42	40	43	41	40	23	26	8	24	22	24	20	29	21	29	25	24	36	31	34	5	25	32		24	18		17	52
267	5/29	ambient	T75	30	38	0	42	39	42	33	43	39	31	24	27	6	22	6	36	21	20	13	14	22	22	34	25	34	15	25	33		22	17		17	52
267	5/30	ambient	T27	30	46	27	47	45	47	46	48	44	45	34	30	31	33	31	30	39	42	32	31	39	36	41	40	40	24	34	35	30	29	22	8	21	57
267	6/7	ambient	T1246	30	45	40	51	45	46	46	48	41	41	27	29	14	24	30	32	22	41	29	34	39	38	42	35	36	20	33	32	25	25	21	18	20	57
267	6/8	ambient	T79	30	45	43	43	44	40	31	41	36	38	25	23	20	23	20	36	18	36	21	26	34	34	36	31	35	24	27	32	33	36	20	14	14	53
289	5/9	ambient	T1107	30	23	25	23	25		27	27		23	9	27	23	6	24	23	6	23	13	14	22	22	29	19	20	24	27	25	5	20	12		4	37
295	5/25	ambient	T498	30	37	39	39	38	39	40	39	37	34	34	33	31	31	31	36	39	40	32	40	39	36	41	29	29	20	26	25	17	28	27	18	11	52
296	5/4	ambient	T1994	30	35	38	37	18	38	37	29	40	36	19	39	34	24	36	35	36	30	20	28	33	32	20	30	29	30	19	28	22	21	11	11		49

CL	Date	Event Type	Event Dist. (m)	File #	Spec. #	10	13	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Calc. Overall SEL
	7/11	Brad/tank	30	T1077	30	82	83	85	87	85	84	89	85	83	83	86	83	84	86	81	79	82	77	79	75	74	73	72	71	73	72	69	63	60	59	55	55	42	34	97
6	5/5	trucks	225	T975	30	63	72	65	68	76	71	73	71	72	77	76	56	52	50	47	46	46	49	50	51	52	51	50	48	46	41	40	44	17	30	24		18		83
6	5/9	trucks	264	T546	30	53	56	59	58	61	62	62	63	84	84	63	58	52	47	48	48	50	48	48	50	51	49	47	45	42	34	37	35	37	46	31		20	27	87
8	5/19	Hummv	20	T41	30	57	63	70	73	78	77	90	93	83	89	88	85	81	77	67	61	63	65	69	69	73	72	71	74	75	71	68	64	59	56	51	48	40	19	97
8	5/19	Hummv	20	T42	30	56	63	64	69	71	71	77	82	92	81	91	101	86	81	76	65	69	68	70	71	73	75	79	76	75	75	73	70	68	64	64	57	46	32	102
8	5/19	Hummv	20	T45	30	56	63	68	72	72	75	78	90	81	82	87	81	81	77	67	60	62	64	67	68	68	70	68	69	71	69	67	64	59	57	52	48	39	17	93
12	5/8	Dump truck	40	T999	8	65	65	65	65	64	64	65	65	64	62	59	50	49	46	43	42	37	42	42	41	42	42	39	38	36	22	32	29	9	24	19		16		75
12	5/12	Dump truck	40	T301	30	54	52	56	59	60	59	60	63	83	80	63	69	67	68	61	56	53	54	54	56	59	57	56	55	55	50	49	45	26	37	29		27	10	85
13	5/12	Hummv	40	T705	30	57	59	57	58	59	60	63	62	62	72	74	60	62	60	60	56	52	51	51	50	48	46	44	43	42	40	42	42	36	34	28		18	34	77
23	5/16	truck	15	T882	30	55	55	63	69	66	65	68	65	65	65	58	59	57	51	58	55	47	57	55	48	53	53	40	50	49	22	52	56	27	42	35		31		76
47	4/10	trucks	35	T843	30	66	69	70	71	76	79	87	82	83	103	92	82	86	79	80	76	77	79	81	83	85	85	86	87	86	82	76	73	66	56	54	50	47	46	104
47	4/10	trucks	35	T844	30	61	63	68	74	75	81	82	85	99	95	88	82	80	77	72	74	75	76	80	76	74	74	68	65	59	53	48	47	46	46	45	40	44	38	101
47	4/10	trucks	35	T845	30	60	65	68	72	79	83	90	95	102	98	99	92	88	88	81	79	78	78	81	80	80	80	80	81	78	75	73	68	62	56	50	46	45	44	106
47	4/10	trucks	35	T846	30	59	63	67	72	79	83	87	94	106	93	94	95	90	90	83	80	79	79	80	79	80	82	81	82	79	77	74	72	65	59	52	46	42	44	107
47	4/10	trucks	35	T847	30	63	65	66	70	80	83	84	91	105	92	99	98	87	86	80	76	74	79	82	78	79	80	79	77	76	74	70	66	62	59	51	45	42	42	107
57	4/28	Graders	50	T672	30	57	48	62	62	60	67	75	68	76	85	76	80	75	72	75	70	70	67	66	67	68	69	70	68	67	62	60	57	44	48	40		33	20	88
57	4/28	Graders	50	T673	30	60	59	64	63	59	67	74	68	76	83	79	81	73	71	72	68	68	67	68	68	69	71	71	70	70	65	62	60	44	50	42		36	26	88
57	4/28	Graders	50	T674	30	66	61	64	64	61	67	74	69	78	76	81	78	70	69	68	64	61	64	63	63	64	64	63	65	66	54	56	54	30	45	36		36	23	86
57	4/28	Graders	50	T675	30	60	52	62	62	59	69	75	70	81	75	88	81	72	73	73	68	67	69	67	70	70	70	70	68	65	63	62	57	32	48	39		34	20	91
57	4/28	Graders	50	T676	30	58	55	62	61	60	71	73	71	84	76	86	81	71	74	74	69	68	70	68	70	71	72	72	71	68	66	65	62	43	50	41		35	20	90
57	4/28	Graders	50	T677	30	61	56	63	60	59	70	72	69	85	77	80	77	70	74	74	68	67	68	68	69	71	72	72	69	67	63	61	60	29	47	39		37	20	88
57	4/28	Graders	50	T678	30	75	73	71	70	67	69	75	70	81	84	78	80	73	73	74	73	69	68	68	71	74	73	75	72	70	68	65	61	47	51	41		34	61	90
57	4/28	Graders	50	T679	30	60	54	63	59	55	66	70	67	77	80	73	73	70	68	68	68	61	63	63	65	68	68	70	67	65	57	59	57	27	45	37		35	27	85
57	5/3	vehicle	50	T20	30	56	50	58	57	65	59	66	66	63	74	86	75	65	64	60	57	53	56	57	58	60	60	60	60	58	57	56	51	43	43	35		29	14	87
57	5/3	vehicle	50	T21	30	55	50	56	61	61	63	66	65	71	87	83	71	67	62	61	57	52	56	59	59	60	60	61	59	60	59	57	53	44	44	35	36	32	14	89

57	5/3	vehicle	50	T22	30	53	52	59	64	58	63	68	68	80	81	76	72	69	66	65	61	60	59	60	63	62	62	62	63	62	63	59	57	54	46	47	41	35	34	85
57	5/3	dump truck	50	T23	30	54	48	59	63	64	65	69	80	93	84	65	70	65	67	57	57	53	56	56	54	57	56	55	51	50	53	54	56	56	51	47	44		31	94
57	5/3	Hummv	50	T24	30	58	59	59	59	59	62	64	69	71	83	79	75	74	68	65	64	60	58	58	56	55	56	56	52	60	56	54	52	51	49	47	44	41	32	86
62	5/8	Brad veh	180	T979	30	48		53	49		53	51	55	64	56	54	60	53	43	51	51	57	55	58	59	61	62	63	59	43	52	49	52	49	36	37	31		27	72
62	5/8	Brad veh	180	T980	30	50	51		51		53	52	58	65	62	63	59	55	49	54	52	60	58	60	62	67	67	67	62	47	58	54	58	54	33	41	34		29	76
62	5/8	Brad veh	180	T981	30	49	33	52	50		52	49	57	61	66	65	60	55	46	52	51	58	56	58	60	66	66	62	60	47	60	59	59	56	42	46	43	6	29	75
82	5/24	Graders	92	T535	30	57	56	56	60	64	73	78	77	66	65	63	63	58	54	48	47	51	50	51	54	55	58	55	54	50	54	52	43	43	51	41	30		21	82
82	5/24	Graders	92	T536	30	57	56	56	60	66	74	80	78	76	69	68	66	61	57	52	49	52	50	52	54	55	59	59	56	50	57	59	46	43	50	41	32	21	22	84
82	5/24	Graders	92	T537	30	52	54	56	57	67	75	79	80	80	70	74	68	61	56	50	49	54	51	56	56	57	56	57	58	51	56	48	48	44	50	42	32	2	22	88
82	5/24	Graders	92	T538	30	54	57	58	62	59	70	75	69	80	81	73	81	73	65	61	56	64	61	68	68	71	71	71	69	58	59	59	57	57	56	52	43	37	31	87
82	5/24	Graders	92	T539	30	55	56	59	60	60	73	76	74	86	82	73	81	73	65	60	56	61	61	65	68	71	71	69	68	58	59	62	59	57	56	51	44	38	32	90
82	5/24	Graders	92	T540	30	52	53	56	59	60	66	80	80	80	83	71	77	69	60	56	54	58	58	64	64	68	67	68	64	57	56	60	56	53	55	49	39	31	29	87
83	5/4	truck	30	T303	30	58	56	61	63	66	65	67	73	79	75	77	72	72	70	67	64	68	60	60	65	69	69	65	68	59	71	58	53	62	58	54	48	30	35	84
83	5/4	truck	30	T304	30	54	49	56	58	61	62	70	67	63	76	71	70	73	67	63	59	66	60	59	66	69	65	65	67	55	71	61	54	63	57	54	49	46	36	82
83	5/4	truck	30	T305	30	63	60	62	61	61	61	71	70	64	76	71	69	73	68	64	61	67	60	58	67	68	67	64	65	58	68	62	61	63	57	53	46	24	34	82
83	6/16	M-88	30	T1189	30	55	58	63	66	74	77	95	86	84	108	99	99	98	95	86	81	80	78	82	80	85	82	85	84	78	77	74	79	79	77	82	77	67	58	110
83	6/16	Brad veh	30	T1190	30	55	57	62	64	68	75	82	86	94	93	97	89	86	86	88	80	74	75	77	74	77	75	77	76	75	72	78	74	68	65	62	59	53	44	101
83	6/16	Brad veh	30	T1191	30	59	61	64	63	82	80	82	82	94	95	86	102	94	88	88	84	76	78	80	76	84	78	80	73	80	79	75	74	74	70	66	62	56	46	105
83	6/16	trucks	30	T1194	30	68	66	66	69	75	79	94	97	85	108	101	112	105	94	84	86	70	76	70	73	80	74	74	70	86	78	59	58	49	56	58	54	51	45	115
83	6/16	Brad veh	30	T1195	30	52	54	56	64	75	82	82	79	97	95	101	109	105	87	86	74	62	66	66	62	67	64	75	69	70	67	59	52	52	51	57	48	46	43	111
83	6/16	Brad veh	30	T1196	30	64	62	63	64	70	80	79	81	94	93	91	115	110	89	74	85	80	83	86	80	74	81	81	73	98	86	83	61	61	59	56	56	55	52	116
88	4/11	trucks	670	T824	30	66	70	74	78	78	83	87	86	92	82	79	81	77	74	82	72	74	75	78	74	62	71	71	64	72	62	59	61	56		48	42	67	58	95
139	5/11	Logging truck	34-138	T508	5	56	59	62	67	71	75	79	78	81	87	85	79	79	82	83	79	76	75	75	71	71	71	70	71	77	70	69	68	66	62	59	56	53	44	93
139	5/11	Logging truck	34-138	T510	30	53	43	56	55	61	61	61	77	77	85	71	66	75	70	67	63	63	61	61	63	64	64	64	60	59	60	57	53	49	37	40	33	13	29	86
152	6/7	truck	50	T86	30	64	63	64	65	72	76	75	75	83	83	71	87	76	67	62	60	67	62	65	67	67	69	67	65	62	64	59	61	55	45	44	35		30	91
152	6/8	truck	50	T963	30	50	53	55	59	63	64	66	75	66	66	62	68	67	55	47	45	46	44	45	46	50	51	51	49	42	50	37	42	42	19	31	23	55	18	75
197	5/2	trucks	30	T12545		42	44	42	46	55	61	62	63	66	66	70	64	64	64	63	62	55	58	54	53	50	51	51	54	58	51	42	40	38	37	36	34	30	21	75
197	5/2	trucks	30	T12546		41	42	43	48	53	59	61	62	63	59	59	59	59	60	56	55	51	56	52	51	46	48	47	46	54	49	38	38	37	36	35	33	30	27	70
197	5/2	trucks	30	T12547		41	40	42	45	55	54	57	63	57	57	59	57	56	57	53	52	49	49	52	47	43	47	47	43	52	47	39	37	36	36	34	32	27	22	67
197	5/22	trucks	30	T12541		25		22	24	52	39	42	45	57	51	58	46	48	48	44	45	41	44	37	41	39	38	37	41	48	44	35	30	28	29	25	25	16	9	58
197	5/22	trucks	30	T12542		23	24	36	38	50	51	55	56	56	62	64	60	62	62	59	59	55	57	52	56	56	53	52	54	62	57	49	45	43	43	41	42	39	29	72
197	6/12	trucks	30	T12543		46	47	44	47	55	58	63	63	63	64	74	68	69	69	66	66	61	63	60	61	59	60	64	63	62	60	54	51	49	48	47	47	44	35	79

197	6/12	trucks	30	T1254	4	45	48	44	48	54	58	62	66	69	74	68	67	70	64	59	66	62	60	57	60	58	56	53	48	45	43	42	40	39	36	27	10	79
206	5/25	truck	100	T526	30	59	61	63	64	77	76	81	92	89	82	85	77	72	67	63	66	64	67	71	67	71	71	66	64	62	58	50	47	39		33	39	95
206	5/25	truck	100	T527	30	55	58	63	62	75	79	80	92	85	81	84	69	72	67	64	66	65	67	69	67	70	68	66	63	61	57	48	46	37		31	17	94
206	5/25	truck	100	T529	30	56	58	63	63	77	76	83	93	84	80	89	69	70	65	62	61	62	65	68	68	68	68	65	62	60	55	44	45	37	12	31	38	95
206	5/25	truck	100	T530	30	56	58	61	61	79	76	90	93	83	84	90	72	73	67	63	64	63	68	70	68	72	70	67	65	61	58	50	48	40		32	21	97
206	5/25	truck	100	T531	30	55	56	60	60	78	74	84	97	79	78	90	71	70	65	62	62	62	63	66	63	67	66	64	61	59	54	43	45	37		32	18	98
206	5/25	trucks	100	T598	30	57	57	56	57	63	63	66	76	72	65	58	51	50	50	49	52	49	52	55	52	52	53	48	43	40	36	27	32	30	26	21	32	79
207	5/2	dump truck	392	T599	30	51	51	53	53	54	56	72	67	72	54	47	45	45	46	42	43	41	37	40	40	39	42	37	18	34	32	34	41	29	14	18	26	76
207	5/2	Brad veh	392	T791	30	51	56	59	63	69	76	89	97	83	85	95	91	86	82	76	75	76	77	80	82	81	78	78	76	73	70	67	64	60	54	44	32	101
216	5/8	Brad veh	30	T792	30	56	61	63	67	74	82	85	100	93	90	96	94	90	83	81	78	79	78	81	84	81	80	79	78	75	71	67	62	57	51	44	34	104
216	5/8	Brad veh	30	T793	30	54	55	60	63	68	80	82	89	100	84	88	95	83	81	78	76	76	76	77	81	78	78	77	75	72	68	65	61	57	54	46	30	102
216	5/8	Brad veh	30	T794	30	54	58	62	69	79	80	81	96	101	87	92	93	85	81	77	74	75	75	77	76	78	76	77	76	71	69	63	57	52	48	42	31	103
216	5/8	Brad veh	30	T795	30	53	57	60	64	75	81	80	84	103	90	86	91	83	80	77	74	74	78	77	80	80	78	77	76	69	68	61	56	52	46	39	30	103
216	5/8	Brad veh	30	T796	30	57	55	61	67	77	80	79	87	102	85	85	91	83	80	77	75	75	74	78	80	78	78	75	74	69	66	61	57	52	47	41	27	103
216	5/8	Brad veh	30	T798	10	44	44	45	46	56	62	60	61	74	63	65	66	62	59	54	53	54	56	56	58	59	57	55	54	49	45	39	34	25	27	21	17	78
216	5/8	Brad veh	30	T798	30	56	59	61	64	69	77	82	91	101	87	86	92	85	83	79	81	79	80	81	83	82	81	80	78	74	70	65	60	54	49	42	34	103
216	5/8	Brad veh	30	T799	30	52	47	57	58	71	75	71	74	90	80	76	83	74	71	66	66	66	69	69	69	69	68	65	63	60	56	52	47	40	27	32	21	92
216	5/8	Brad veh	30	T800	30	55	56	60	62	70	78	94	92	86	95	96	94	88	82	78	77	77	76	80	80	80	79	79	77	72	68	63	59	55	53	43	35	102
216	5/8	Brad veh	30	T801	30	56	57	60	65	79	78	90	94	87	88	95	88	87	82	80	78	76	78	80	81	80	78	77	75	74	71	66	61	55	49	41	35	100
216	5/8	LMTV	30	T802	30	53	50	55	57	59	69	67	72	76	73	67	74	68	60	58	59	58	67	64	65	71	67	66	65	64	60	56	52	46	34	33	17	83
216	5/8	Brad veh	30	T804	30	58	59	63	62	69	79	89	98	85	87	96	91	88	82	80	78	78	78	80	80	80	78	78	75	73	69	64	60	54	49	41	31	102
216	5/8	Brad veh	30	T805	30	55	57	62	64	72	81	90	101	87	89	99	91	94	86	84	81	82	82	84	82	84	84	84	82	79	76	72	67	61	56	46	38	105
216	5/8	Brad veh	30	T806	30	55	53	59	61	70	79	81	96	100	84	91	93	87	82	79	79	76	76	78	76	79	79	79	77	74	71	67	63	57	51	42	34	103
216	5/8	Brad veh	30	T807	30	55	54	59	60	68	79	82	97	84	86	93	86	89	82	79	79	78	78	79	78	79	79	79	77	74	71	66	60	53	48	41	32	100
216	5/8	Brad veh	30	T808	30	60	60	61	63	70	78	81	94	90	85	93	88	86	79	78	76	76	74	76	74	77	76	75	74	71	69	64	59	56	47	41	46	99
216	5/8	Brad veh	30	T809	30	55	57	62	65	72	80	82	98	87	86	94	89	85	85	83	78	77	76	77	78	77	77	77	75	73	70	65	61	58	52	44	32	101
216	5/8	Brad veh	30	T810	30	57	58	62	62	82	82	85	101	92	87	97	91	92	84	81	81	81	79	81	82	80	80	80	77	74	71	65	63	56	49	39	46	104
216	5/8	Brad veh	30	T811	30	55	58	61	65	70	80	81	99	95	85	95	92	91	82	81	78	77	79	81	82	81	79	79	77	73	70	65	61	55	52	41	32	104
216	5/8	Brad veh	30	T812	30	54	55	58	65	71	83	87	98	95	87	94	95	88	82	81	78	77	77	80	81	80	79	79	77	74	71	66	60	54	49	41	31	103

216	5/8	Brad veh	30	T813	30	55	59	61	65	72	81	82	84	98	102	87	93	94	89	88	84	83	81	81	81	82	81	80	80	79	75	72	67	63	57	52	43	38	105
216	5/8	Brad veh	30	T814	30	57	58	62	66	72	78	78	83	94	93	88	89	88	89	94	88	82	81	79	80	84	87	84	87	84	83	81	76	71	65	58	47	48	101
216	5/8	Brad veh	30	T815	30	56	60	66	69	76	81	81	98	94	93	104	96	93	98	93	86	85	83	84	83	85	87	87	88	88	83	80	78	74	77	65	52	39	107
216	5/8	Brad veh	30	T816	30	57	56	63	70	72	73	86	79	99	91	81	82	76	72	68	66	68	73	75	74	73	71	70	67	65	61	58	54	43	26	100			
216	5/8	truck	30	T1185	30	37	41	36	42	42	42	48	52	49	54	49	47	44	45	48	49	58	59	65	63	62	59	58	57	54	52	46	40	31	17	71			

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14. ABSTRACT

It is estimated that nearly a quarter of the remaining Red-cockaded Woodpecker (RCW) population resides on 16 military installations in the southeastern United States. Such a close association has led to increased conflicts between TES conservation requirements and the military's mission of maintaining a high degree of combat readiness. Increased importance has been placed on determining how noise affects these species. The primary research objective of this multiyear study is to determine the impact of certain types of training noise on the endangered RCW. A second objective is to develop and disseminate cost-effective techniques for documenting the effects of training noise on TES populations.

During this third year of study of the impacts of training noise on the RCW, we observed and documented experimental training noise events and the resulting RCW responses under realistic conditions. Both proximate response behavior and nesting success were measured. We also observed RCW behavior and nesting success for groups where noise stimuli were absent or minimal, to provide an undisturbed behavior baseline to judge response and impact against. No significant differences in nesting success or productivity were found between experimentally disturbed and relatively undisturbed RCW groups.

15. SUBJECT TERMS

red-cockaded woodpecker (RCW)	military training	natural resource management	noise
threatened and endangered species (TES)	Strategic Environmental Research and Development Program (SERDP)	military activity	

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